

For release 10:00 a.m. (EDT) Tuesday, March 19, 2013

USDL-13-0476

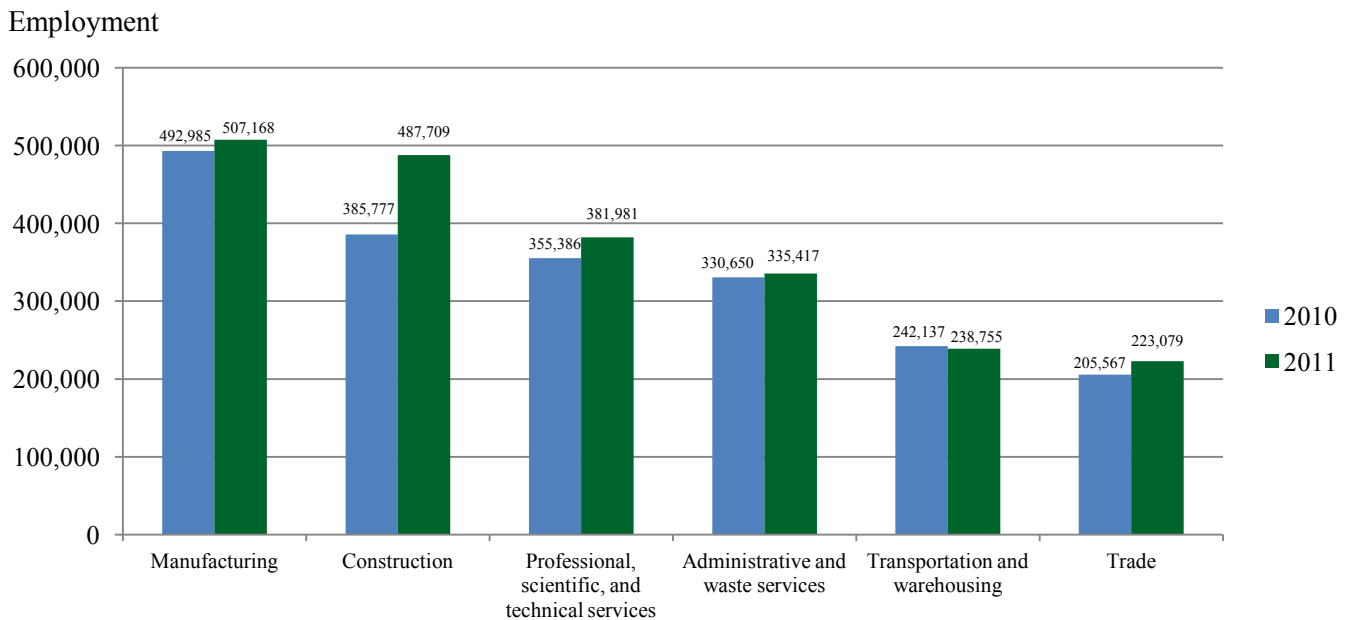
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EMPLOYMENT IN GREEN GOODS AND SERVICES – 2011

In 2011, the percentage of total employment associated with the production of Green Goods and Services (GGS) increased by 0.1 percentage point to 2.6 percent, the U.S. Bureau of Labor Statistics reported today. The number of GGS jobs increased by 157,746 to 3,401,279. GGS employment accounted for 2.3 percent of private sector jobs and 4.2 percent of public sector jobs in 2011. The private sector had 2,515,200 GGS jobs, while the public sector had 886,080 GGS jobs. Among private sector industries, construction had the largest employment rate increase, from 7.0 to 8.9 percentage points, while manufacturing had the most GGS jobs (507,168). (See table 1.) GGS jobs are found in businesses that primarily produce goods and provide services that benefit the environment or conserve natural resources.

Chart 1. Green goods and services private sector employment, 2010–11 annual averages



Green Goods and Services Industry Employment Data are Discontinued

On March 1, 2013, President Obama ordered into effect the across-the-board spending cuts (commonly referred to as sequestration) required by the Balanced Budget and Emergency Deficit Control Act, as amended. Under the order, the Bureau of Labor Statistics (BLS) must cut its current budget by more than \$30 million, 5 percent of the current 2013 appropriation, by September 30, 2013. In order to achieve these savings and protect core programs, the BLS will eliminate two programs and all "measuring green jobs" products. These products include: data on employment by industry and occupation for businesses that produce green goods and services; data on the occupations and wages of jobs related to green technologies and practices; and green career information publications. This is the last scheduled release of new data on employment by industry for businesses that produce green goods and services.

Among the states, California had the largest number of GGS jobs (360,245), accounting for 2.5 percent of employment in the state. The District of Columbia had the highest proportion of GGS employment, at 5.1 percent; Oregon had the second highest proportion, at 4.3 percent. (See table 4.)

GGS employment data are compiled through the Green Goods and Services survey under the Quarterly Census of Employment and Wages (QCEW) program. The QCEW includes nearly all businesses with employees covered by state or federal unemployment insurance, which constitute approximately 95.7 percent of civilian wage and salary employment in the U.S. The GGS survey includes approximately 120,000 business and government establishments within 325 industries identified as potentially producing green goods or providing green services. Establishments in the survey report whether they produced green goods and services and the percentage of their revenue or employment associated with that output. Those percentages are multiplied by their employment to derive the number of GGS jobs for the establishment. More information about the survey is provided in the Technical Note.

Private Industry

The private sector had 2,515,200 GGS jobs in 2011, or 2.3 percent of private sector employment. (See tables A and 1.) Manufacturing had the largest number of GGS jobs (507,168) among all private industry sectors. These GGS jobs accounted for 4.3 percent of manufacturing employment. Examples of green goods and services produced by manufacturing industries include iron and steel from recycled inputs, air conditioning and refrigeration equipment meeting selected standards, hybrid cars and parts, and pollution mitigation equipment. (See table 3.)

Table A. GGS employment by private industry sector, 2010–11 annual averages

NAICS	Industry	2010 GGS employment	2011 GGS employment	Change in GGS employment, 2010-11
	Total, all private industries	2,342,562	2,515,200	172,638
11,21	Natural resources and mining	63,344	64,689	1,345
22	Utilities	69,031	71,129	2,098
23	Construction	385,777	487,709	101,932
31-33	Manufacturing	492,985	507,168	14,183
42,44-45	Trade	205,567	223,079	17,512
48-49	Transportation and warehousing	242,137	238,755	-3,382
51	Information	33,321	29,412	-3,909
52,53	Financial activities	462	475	13
54	Professional, scientific, and technical services	355,386	381,981	26,595
55	Management of companies and enterprises	62,630	69,310	6,680
56	Administrative and waste services	330,650	335,417	4,767
61,62	Education and health services	28,789	26,123	-2,666
71,72	Leisure and hospitality	20,642	23,696	3,054
81	Other services, except public administration	51,841	56,257	4,416

NOTE: Data may not add to total due to rounding.

Construction had 487,709 GGS jobs in 2011, comprising 8.9 percent of the sector's employment. The sector had the largest increase in GGS employment from 2010 to 2011, up 101,932, or 26.4 percent. Among the GGS activities performed within the sector are the construction of plants that produce energy from renewable sources and weatherizing and retrofitting projects that reduce household energy consumption.

The trade sector had 223,079 GGS jobs in 2011, accounting for 1.1 percent of the industry's employment. This sector's increase of 17,512 GGS jobs, or 8.5 percent over the year, was the second largest significant change in the private sector. Industries within the trade sector that have GGS output include recyclable material merchant wholesalers and used merchandise stores.

Leisure and hospitality services had 23,696 GGS jobs in 2011. GGS employment in leisure and hospitality grew by 3,054, or 14.8 percent over the year. Nature parks and botanical gardens are examples of GGS services within leisure and hospitality services.

In the transportation and warehousing sector, the number of GGS jobs decreased by 3,382 to 238,755, a decline of about 1.4 percent. Commuter rail systems and charter bus services are examples of GGS services within transportation and warehousing.

Utilities

Utilities had 71,129 GGS jobs in 2011, or 12.9 percent of total private utilities employment. The private utilities sector added 2,098 GGS jobs in 2011, a 3.0 percent increase. Among the industries involved in private sector electric power generation, nuclear electric power generation had the highest GGS employment, with 44,054 jobs in 2011. Hydroelectric power generation had the second largest GGS employment, with 3,780 GGS jobs. Wind electric power generation was third with 2,724 GGS jobs, followed by biomass electric power generation (1,166), geothermal electric power generation (1,017), and solar electric power generation (522). Other electric power generation had 525 GGS jobs in 2011. (See table 2 for public sector utilities data and table 3 for private sector utilities data.)

Government

The public sector had 886,080 GGS jobs in 2011, accounting for 4.2 percent of employment in the sector. Over the year, government GGS employment decreased by 14,890 (-1.7 percent). Local government had 424,201 GGS jobs in 2011, the most in the public sector, representing 3.1 percent of local government employment. The transportation and warehousing sector had the largest GGS employment in local government with 209,063 jobs. (See table 2.)

In 2011, state government had 248,539 GGS jobs, or 5.5 percent of state government employment. Public administration led GGS employment in state government with 164,952 GGS jobs. The enforcement of environmental regulations and the administration of environmental programs are examples of GGS services within public administration.

The federal government had 213,340 GGS jobs representing 7.5 percent of federal government employment in 2011. The public administration sector had 139,884 GGS jobs, the most within federal government. The professional, scientific, and technical services sector followed with 39,714 GGS jobs.

Geographic Detail

Ten states had over 100,000 GGS jobs in 2011: California (360,245), New York (266,308), Texas (227,532), Pennsylvania (167,397), Ohio (137,143), Illinois (136,447), Florida (117,433), North Carolina (108,094), Virginia (107,773), and Washington (101,593). (See table 4.)

The District of Columbia had the highest percentage of GGS total employment of any jurisdiction (5.1 percent) in 2011. Oregon had the next highest proportion of its employment in GGS jobs (4.3 percent). California experienced the largest increase in GGS employment, with an additional 17,366 GGS jobs, or 5.1 percent added, over the year. Maryland had the second largest increase in GGS employment, with 14,143 GGS jobs, or 18.3 percent added between 2010 and 2011.

GGS employment by percentage of revenue or employment from green goods and services

GGS employment is determined based on the percentage of revenue (or percentage of employment, in the absence of revenue) associated with the production of green goods and services. The GGS survey scope is defined as 325 6-digit NAICS industries that potentially produce green goods and services. Any establishment within that scope could fall into one of three categories: no revenue or employment from green goods or services, some revenue or employment from green goods or services, or all revenue or employment from green goods and services.

Table B. GGS employment level by green activity, 2010–11 annual averages

Revenue or employment from GGS	2010			2011		
	GGS in-scope employment ¹	GGS employment	Percent of GGS employment	GGS in-scope employment ¹	GGS employment	Percent of GGS employment
0%	17,696,984	0	0	17,497,369	0	0
0% < GGS < 100%	6,207,622	1,416,620	43.7	6,637,244	1,478,029	43.5
100%	1,826,913	1,826,913	56.3	1,923,251	1,923,251	56.5
Total	25,731,519	3,243,533	100.0	26,057,864	3,401,279	100.0

¹GGS in-scope employment is the total employment within industries that potentially produce green goods or provide green services, based on the Quarterly Census of Employment and Wages.

NOTE: GGS data for 2010 have been revised to incorporate methodological changes as explained in the Technical Note. Please also note data may not add to total due to rounding.

In 2011, the majority (56.5 percent) of GGS employment was found in establishments that exclusively produced green goods and services; these establishments had 1,923,251 GGS jobs. Establishments that produced a mix of green and non-green goods and services had 1,478,029 GGS jobs in the same time period. Establishments that produced no green goods or services (i.e., no revenue or employment was associated with green goods and services in those establishments) accounted for 67.1 percent of employment within the GGS scope. (See table B.)

For More Information

The tables and charts included in this release contain data for the nation and for the 50 states and the District of Columbia. Data for 2011 green employment levels and percents for all states are provided in tables 4, 5, and 6 of this release. For additional information about the Green Goods and Services data, please read the Technical Note. Further information about the GGS data may be obtained by calling (202) 691-5185 or by accessing the GGS webpage at www.bls.gov/ggs.

Revisions to the Green Goods and Services Data

Effective with this release, the Bureau of Labor Statistics made improvements to the Green Goods and Services (GGS) estimation procedures. The estimates for 2010 have been revised to include these improvements. In addition, the 2010 GGS data have been revised to reflect the 2012 version of the North American Industry Classification System (NAICS). These revisions enable comparisons between GGS series from 2010 to those for 2011. For more information, please see the Technical Note and <http://www.bls.gov/ggs/ggsoverview.htm#technote>.

Technical Note

This release presents statistics from the Green Goods and Services program (GGS). GGS employment level and rate estimates are published by state, ownership, and industry. Data for GGS are collected and compiled by the Bureau of Labor Statistics from a sample of business and government establishments in selected industries with workers covered by state and federal unemployment insurance (UI) legislation provided by State Workforce Agencies (SWAs).

Collection

In an annual survey of business establishments, data are collected for employment, fiscal year, and the share of revenue or employment associated with production of green goods or services at the establishment level. Data collection methods include mail, computer-assisted telephone interviewing, web, and fax.

Coverage

BLS sampled from 325 North American Industrial Classification System (NAICS) industries identified as potential producers or providers of green goods and services. The GGS survey covers all private establishments in these industries, such as factories, offices, and stores, as well as federal, state, and local government entities in the 50 states and the District of Columbia.

Concepts

Green Goods and Services. Green goods and services are defined as goods and services produced by an establishment that benefit the environment or conserve natural resources. Green goods and services fall into one or more of the following five groups: (1) production of energy from renewable sources; (2) energy efficiency; (3) pollution reduction and removal, greenhouse gas reduction, and recycling and reuse; (4) natural resources conservation; and (5) environmental compliance, education and training, and public awareness.

Industry classification. The industry classifications in this release are in accordance with the 2012 version of the North American Industry Classification System (NAICS). Only the 325 industries identified by BLS as producing green goods and providing green services are included in the scope of the GGS survey. To ensure the highest possible quality of data, the Quarterly Census of Employment and Wages (QCEW) program verifies with employers and updates, if necessary, the NAICS code, location, and ownership classification of all establishments on a 3-year cycle. Changes in establishment characteristics resulting from the verification process are annually introduced into the GGS sampling frame.

Green Goods and Services jobs. GGS jobs are those associated with producing green goods or providing green services. Some businesses produce multiple products and services where one or more may be included in the BLS definition. For these cases, BLS determined from prior research that businesses often have difficulty providing employment associated with the production of green goods and services, while information on the revenue from the sale of the green goods or services is more readily available and less burdensome for the respondent to provide. The percentage of the establishment's revenue related to sale of green goods and services is used to estimate GGS jobs, which are defined as employment related to the production of green goods and services at the establishment level. Sampled establishments that do not generate revenue are asked to report the share of their employment involved with the production of green goods and services. For example, employment related to research and development, non-profit organizations, government agencies, and new businesses may provide green goods and services without generating income.

Employment. Employment includes persons on the payroll who worked or received pay for the pay period that includes the twelfth day of the reference month. Full-time, part-time, permanent, short-term, seasonal, salaried, and hourly employees are included, as are employees on paid vacations or other paid leave. Proprietors or partners of unincorporated businesses, unpaid family workers, or persons on leave without pay or on strike for the entire pay period, are not counted as employed. Employees of temporary help agencies, employee leasing companies, outside contractors, and consultants are counted by their employer of record, not by the establishment where they are working. The monthly employment figure provided by respondents will be compared to employment data BLS has on file as part of the QCEW program, which comprise BLS' business register, in order to verify that data are being collected for the correct establishment.

Estimates. Estimates of GGS employment and GGS percent of total QCEW employment are released with the annual GGS news release.

Sample and estimation methodology

Sample. BLS selects approximately 120,000 GGS establishments per year from the Quarterly Census of Employment and Wages (QCEW) program. This program includes all employers subject to state Unemployment Insurance (UI) laws and federal agencies subject to Unemployment Compensation for Federal Employees (UCFE). Most of these establishments are se-

lected from the second quarter QCEW sample frame, while a small sample of new business establishments is selected from the fourth quarters. The sample is designed to estimate GGS employment at both national industry and state industry sector levels of detail.

The GGS sample is divided into three panels, each containing approximately 40,000 sample units. Two of the three panel samples overlap with the previous year's sample to produce estimates of change in green employment. A new sample is allocated and selected from the panel that does not overlap.

Estimation. A Horvitz-Thompson estimator is used to estimate GGS employment, based on an establishment's 12-month average employment over the reference period, percent of revenue or employment associated with green goods and services, and sampling weight. The 12-month average employment is obtained from corresponding QCEW files and is known for each sampled establishments.

GGS percentage estimates are relative to the QCEW employment of all industries contained within a particular estimation cell's NAICS code, not only the 325 industries included in the GGS scope. For GGS employment percentages, the estimate of GGS employment is divided by the 12-month average of QCEW employment over the reference period.

Reliability. GGS estimates are subject to both sampling and nonsampling error. Sampling error arises from selecting a sample of establishments rather than the entire business population. To measure this error, GGS uses a balanced repeated replication technique to calculate standard errors. Given the standard error for an estimate, an approximate 90 percent confidence interval can be constructed by adding and subtracting 1.645 times the standard error from the estimate.

The standard error of the estimated total GGS employment is approximately 34,000. The standard error of over the year change in total GGS employment is about 36,000.

The standard error of the estimated rate of GGS employment is approximately 0.03 percent. The standard error of over the year change in rate of GGS employment is about 0.03 percent.

Nonsampling error arises from various sources, such as establishments failing to respond or misreporting data, coding and data processing errors, and population

coverage. Since GGS only samples establishments in 325 industries predetermined to potentially have GGS employment, any green goods and services produced or provided in other industries is not captured. GGS is also subject to errors in the sampling frame, in which some establishments' industry codes may be misclassified.

Specialized Procedures. GGS sampling methodology is coordinated with the Occupational Employment Statistics survey. Sampling overlap between the two surveys is maximized for additional inference to be made about green staffing patterns. Such inferences are not included as part of this GGS release.

Methodological changes

NAICS 2012 Conversion. The original survey estimates for 2010 were based on the 2007 NAICS classification. In that reference period, data were collected for industries defined in the GGS scope according to their NAICS classification at that time. The 2011 survey estimates are based on the 2012 NAICS classification, which impacted the scope of the GGS survey. Some private-ownership manufacturing industries that were not included in the 2010 GGS scope combined with in-scope industries. Thus, for 2011 estimates, some establishments that were previously out-of-scope are included in the survey. Revised 2010 estimates are based on the 2012 NAICS classification.

Imputation. Establishments that are sampled in both survey years but only report usable data for one year are imputed. Three methods are used to impute missing green percent values: hot deck imputation; overlays; and mean imputation.

Benchmarking. Benchmarking procedures were revised to incorporate ownership for both survey years.

For more information. For more detailed information on these methodological changes, please visit the Technical Note section of the GGS web page at www.bls.gov/ggs.

Other information

Information in this release will be made available to sensory impaired individuals upon request. Voice phone: (202) 691-5200; Federal Relay Service: (800) 877-8339.

Table 1. Green Goods and Services (GGS) employment by industry sector, annual averages

Industry	NAICS ¹	GGS employment ²		GGS percent ³		GGS employment change from: 2010 - 2011
		2010	2011	2010	2011	
Total, all industries.....		3,243,533	3,401,279	2.5	2.6	157,746
Total private.....		2,342,562	2,515,200	2.2	2.3	172,638
Natural resources and mining.....	11,21	63,344	64,689	3.5	3.4	1,345
Utilities.....	22	69,031	71,129	12.5	12.9	2,098
Construction.....	23	385,777	487,709	7.0	8.9	101,932
Manufacturing.....	31-33	492,985	507,168	4.3	4.3	14,183
Trade.....	42,44-45	205,567	223,079	1.0	1.1	17,512
Transportation and warehousing.....	48-49	242,137	238,755	6.1	5.9	-3,382
Information.....	51	33,321	29,412	1.2	1.1	-3,909
Financial activities.....	52,53	462	475	0.0	0.0	13
Professional, scientific, and technical services.....	54	355,386	381,981	4.8	5.0	26,595
Management of companies and enterprises.....	55	62,630	69,310	3.4	3.6	6,680
Administrative and waste services.....	56	330,650	335,417	4.5	4.3	4,767
Education and health services.....	61,62	28,789	26,123	0.2	0.1	-2,666
Leisure and hospitality.....	71,72	20,642	23,696	0.2	0.2	3,054
Other services, except public administration.....	81	51,841	56,257	1.2	1.3	4,416
Federal government.....		208,744	213,340	7.0	7.5	4,596
State government.....		256,224	248,539	5.6	5.5	-7,685
Local government.....		436,002	424,201	3.1	3.1	-11,801

1 North American Industry Classification System, 2012.

2 GGS employment is the number of jobs related to the production of Green Goods and Services.

3 GGS percent is the percentage of the GGS employment compared to the total employment. This value is derived by dividing the GGS employment by the total employment.

NOTE: GGS data for 2010 have been revised to incorporate methodological changes explained in the Technical Note. Please also note data may not add to total due to rounding.

Table 2. Green Goods and Services (GGS) employment by industry sector in government, annual averages

Industry	NAICS ¹	Federal government				State government				Local government			
		2010		2011		2010		2011		2010		2011	
		GGs employment ²	GGs percent ³	GGs employment ²	GGs percent ³	GGs employment ²	GGs percent ³	GGs employment ²	GGs percent ³	GGs employment ²	GGs percent ³	GGs employment ²	GGs percent ³
Total, all industries.....		208,744	7.0	213,340	7.5	256,224	5.6	248,539	5.5	436,002	3.1	424,201	3.1
Natural resources and mining.....	11,21	— ⁴	— ⁴	— ⁴	— ⁴	1,642	72.8	1,725	79.2	— ⁴	— ⁴	— ⁴	— ⁴
Utilities.....	22	7,931	58.7	7,218	52.0	— ⁴	— ⁴	— ⁴	— ⁴	98,990	40.8	93,644	38.9
Construction.....	23	— ⁴	— ⁴	— ⁴	— ⁴	— ⁴	— ⁴	— ⁴	— ⁴	— ⁴	— ⁴	1,242	1.2
Manufacturing.....	31-33	— ⁴	— ⁴	— ⁴	— ⁴	— ⁴	— ⁴	— ⁴	— ⁴	— ⁴	— ⁴	— ⁴	— ⁴
Trade.....	42,44-45	— ⁴	— ⁴	— ⁴	— ⁴	— ⁴	— ⁴	— ⁴	— ⁴	— ⁴	— ⁴	— ⁴	— ⁴
Transportation and warehousing.....	48-49	— ⁴	— ⁴	— ⁴	— ⁴	27,270	51.3	27,583	52.3	210,614	78.3	209,063	77.9
Information.....	51	— ⁴	— ⁴	— ⁴	— ⁴	— ⁴	— ⁴	516	7.4	4,099	3.2	3,644	2.8
Financial activities.....	52,53	— ⁴	— ⁴	— ⁴	— ⁴	— ⁴	— ⁴	— ⁴	— ⁴	— ⁴	— ⁴	— ⁴	— ⁴
Professional, scientific, and technical services.....	54	38,445	54.1	39,714	55.1	1,760	9.0	— ⁴	— ⁴	968	5.2	1,131	6.1
Administrative and waste services.....	56	— ⁴	— ⁴	— ⁴	— ⁴	— ⁴	— ⁴	— ⁴	— ⁴	33,345	46.7	32,577	46.4
Education and health services.....	61,62	— ⁴	— ⁴	— ⁴	— ⁴	43,201	1.7	42,423	1.7	9,463	0.1	10,020	0.1
Leisure and hospitality.....	71,72	21,848	36.4	21,489	36.5	9,450	38.8	9,024	38.8	21,499	5.5	20,596	5.3
Other services, except public administration.....	81	— ⁴	— ⁴	— ⁴	— ⁴	— ⁴	— ⁴	228	7.3	3,011	6.6	2,873	6.5
Public administration.....	92	134,903	8.0	139,884	8.8	171,244	9.2	164,952	9.0	52,886	1.3	49,229	1.3

1 North American Industry Classification System, 2012.

2 GGS employment is the number of jobs related to the production of Green Goods and Services.

3 GGS percent is the percentage of the GGS employment compared to the total employment. This value is derived by dividing the GGS employment by the total employment.

4 Data do not meet BLS disclosure standards.

NOTE: GGS data for 2010 have been revised to incorporate methodological changes explained in the Technical Note. Please also note data may not add to total due to rounding.

Table 3. Green Goods and Services (GGS) private sector employment by detailed industry, annual averages

Industry	NAICS ¹	GGS employment ²		GGS percent ³		GGS employment change from: 2010 - 2011
		2010	2011	2010	2011	
Total private.....		2,342,562	2,515,200	2.2	2.3	172,638
Natural resources and mining.....	11,21	63,344	64,689	3.5	3.4	1,345
Crop production.....	111	36,703	36,796	6.9	6.9	93
Oilseed and grain farming.....	1111	3,934	4,775	9.3	10.6	841
Vegetable and melon farming.....	1112	10,045	10,701	10.7	11.3	656
Fruit and tree nut farming.....	1113	12,954	11,669	7.1	6.3	-1,285
Greenhouse and nursery production.....	1114	5,627	5,631	3.9	3.9	4
Other crop farming.....	1119	4,143	4,020	6.5	6.5	-123
Animal production and aquaculture.....	112	6,626	6,196	2.9	2.7	-430
Cattle ranching and farming.....	1121	3,800	3,421	2.9	2.5	-379
Hog and pig farming.....	1122	536	- ⁴	1.9	- ⁴	-
Poultry and egg production.....	1123	1,787	1,798	4.6	4.6	11
Sheep and goat farming.....	1124	- ⁴	- ⁴	- ⁴	- ⁴	-
Aquaculture.....	1125	382	426	6.5	7.5	44
Other animal production.....	1129	- ⁴	- ⁴	- ⁴	- ⁴	-
Forestry and logging.....	113	9,432	10,564	16.8	19.0	1,132
Timber tract operations.....	1131	1,061	1,292	29.7	35.6	231
Forest nursery and gathering forest products.....	1132	528	434	17.9	14.1	-94
Logging.....	1133	7,844	8,837	15.8	18.1	993
Agriculture and forestry support activities.....	115	10,583	11,133	3.2	3.3	550
Support activities for crop production.....	1151	5,395	5,761	1.9	2.0	366
Support activities for animal production.....	1152	- ⁴	- ⁴	- ⁴	- ⁴	-
Support activities for forestry.....	1153	- ⁴	- ⁴	- ⁴	- ⁴	-
Utilities.....	22	69,031	71,129	12.5	12.9	2,098
Utilities.....	221	69,031	71,129	12.5	12.9	2,098
Power generation and supply.....	2211	49,973	53,787	12.6	13.6	3,814
Electric power generation.....	22111	49,973	53,787	29.5	32.4	3,814
Hydroelectric power generation.....	221111	5,124	3,780	72.7	64.8	-1,344
Nuclear electric power generation.....	221113	39,818	44,054	75.7	83.6	4,236
Solar electric power generation.....	221114	- ⁵	522	- ⁵	97.9	-
Wind electric power generation.....	221115	- ⁵	2,724	- ⁵	91.7	-
Geothermal electric power generation.....	221116	- ⁵	1,017	- ⁵	96.9	-
Biomass electric power generation.....	221117	- ⁵	1,166	- ⁵	92.3	-
Other electric power generation.....	221118	- ⁵	525	- ⁵	65.8	-
Water, sewage and other systems.....	2213	19,058	17,342	40.8	37.0	-1,716
Water supply and irrigation systems.....	22131	11,995	10,248	32.0	27.2	-1,747
Sewage treatment facilities.....	22132	6,439	6,448	87.7	88.1	9
Steam and air-conditioning supply.....	22133	624	646	32.2	34.6	22
Construction.....	23	385,777	487,709	7.0	8.9	101,932
Construction of buildings.....	236	78,113	117,263	6.4	9.7	39,150
Residential building construction.....	2361	31,498	57,016	5.5	10.1	25,518
Nonresidential building construction.....	2362	46,615	60,247	7.2	9.3	13,632
Heavy and civil engineering construction.....	237	44,560	49,613	5.5	6.0	5,053
Utility system construction.....	2371	34,642	39,330	9.1	9.9	4,688
Land subdivision.....	2372	1,889	1,664	3.7	3.7	-225
Other heavy construction.....	2379	8,028	8,618	8.5	9.1	590
Specialty trade contractors.....	238	263,105	320,833	7.6	9.3	57,728
Building foundation and exterior contractors.....	2381	39,585	51,190	5.9	7.7	11,605
Building equipment contractors.....	2382	164,809	194,476	10.1	11.9	29,667
Building finishing contractors.....	2383	38,185	49,119	6.0	7.9	10,934
Other specialty trade contractors.....	2389	20,526	26,049	4.0	5.0	5,523
Manufacturing.....	31-33	492,985	507,168	4.3	4.3	14,183
Textile product mills.....	314	10,484	10,131	8.8	8.6	-353
Textile furnishings mills.....	3141	9,461 ⁶	9,271	16.5 ⁶	17.0	-190 ⁶
Other textile product mills.....	3149	1,023	859	1.7	1.4	-164
Wood product mfg.....	321	33,838	33,052	10.0	9.8	-786
Sawmills and wood preservation.....	3211	498	323	0.6	0.4	-175
Plywood and engineered wood product mfg.....	3212	6,545	6,840	10.4	11.2	295
Plywood and engineered wood product mfg.....	32121	6,545	6,840	10.4	11.2	295
Hardwood veneer and plywood mfg.....	321211	1,516	1,992	10.3	13.2	476
Softwood veneer and plywood mfg.....	321212	- ⁴	658	- ⁴	4.9	-
Engineered wood member mfg.....	321213	- ⁴	345	- ⁴	8.6	-
Truss mfg.....	321214	997	1,158	5.5	6.8	161

See footnotes at end of table.

Table 3. Green Goods and Services (GGS) private sector employment by detailed industry, annual averages — Continued

Industry	NAICS ¹	GGS employment ²		GGS percent ³		GGS employment change from: 2010 - 2011
		2010	2011	2010	2011	
Reconstituted wood product mfg.....	321219	2,929	2,687	23.8	22.8	-242
Other wood product mfg.....	3219	26,795	25,888	13.8	13.5	-907
Millwork.....	32191	20,839	21,970	22.7	24.9	1,131
Wood window and door mfg.....	321911	18,055	19,041	40.1	44.8	986
Other millwork, including flooring.....	321918	2,783	2,928	7.9	8.6	145
All other wood product mfg.....	32199	5,956	3,919	11.6	7.7	-2,037
Manufactured home, mobile home, mfg.....	321991	3,803	2,114	19.9	11.7	-1,689
Prefabricated wood building mfg.....	321992	2,154	1,805	16.1	14.2	-349
Paper mfg.....	322	33,853	32,032	8.6	8.3	-1,821
Pulp, paper, and paperboard mills.....	3221	33,853	32,032	30.3	29.3	-1,821
Pulp mills.....	32211	1,208	1,078	20.3	18.0	-130
Paper mills.....	32212	19,669	18,167	25.9	24.5	-1,502
Paper, except newsprint, mills.....	322121	17,052	15,552	25.0	23.3	-1,500
Newsprint mills.....	322122	2,617	2,615	33.6	34.8	-2
Paperboard mills.....	32213	12,976	12,787	43.6	43.7	-189
Petroleum and coal products mfg.....	324	3,244	3,278	2.9	3.0	34
Petroleum and coal products mfg.....	3241	3,244	3,278	2.9	3.0	34
Chemical mfg.....	325	23,124	24,733	2.9	3.2	1,609
Basic chemical mfg.....	3251	10,600	10,842	7.5	7.6	242
Agricultural chemical mfg.....	3253	639	518	1.8	1.4	-121
Paint, coating, and adhesive mfg.....	3255	3,674	4,131	6.6	7.2	457
Paint and coating mfg.....	32551	2,731	3,078	7.5	8.2	347
Adhesive mfg.....	32552	943	1,053	4.9	5.3	110
Soap, cleaning compound, and toiletry mfg.....	3256	2,228	2,601	2.2	2.6	373
Soap and cleaning compound mfg.....	32561	2,228	2,601	4.3	5.0	373
Soap and other detergent mfg.....	325611	674	806	2.8	3.4	132
Polish and other sanitation good mfg.....	325612	1,553	1,795	6.8	7.7	242
Other chemical product and preparation mfg.....	3259	5,983	6,641	7.1	7.8	658
Printing ink mfg.....	32591	1,357	1,400	14.3	14.9	43
All other chemical preparation mfg.....	32599	4,626	5,241	6.8	7.7	615
Custom compounding of purchased resins.....	325991	1,597	1,968	10.5	12.7	371
Other miscellaneous chemical product mfg.....	325998	3,029	3,273	8.9	9.3	244
Plastics and rubber products mfg.....	326	32,407	33,421	5.2	5.3	1,014
Plastics product mfg.....	3261	27,768	28,660	5.5	5.7	892
Other plastics product mfg.....	32619	27,768	28,660	10.2	10.5	892
Plastics plumbing fixture mfg.....	326191	409	801	3.3	6.7	392
All other plastics product mfg.....	326199	27,359 ⁶	27,860	10.6 ⁶	10.6	501 ⁶
Rubber product mfg.....	3262	4,639	4,760	3.8	3.8	121
Tire mfg.....	32621	3,008	3,221	5.8	6.0	213
Tire retreading.....	326212	3,008	3,221	45.4	46.4	213
Other rubber product mfg.....	32629	1,631	1,539	3.4	3.0	-92
All other rubber product mfg.....	326299	1,631	1,539	7.0	6.2	-92
Nonmetallic mineral product mfg.....	327	29,710	29,885	8.1	8.2	175
Clay product and refractory mfg.....	3271	4,878 ⁶	4,706	12.1 ⁶	11.6	-172 ⁶
Glass and glass product mfg.....	3272	7,991	9,079	10.1	11.4	1,088
Cement and concrete product mfg.....	3273	9,963	9,495	5.9	5.8	-468
Lime and gypsum product mfg.....	3274	2,397	2,433	17.8	18.3	36
Other nonmetallic mineral products.....	3279	4,481	4,172	6.9	6.3	-309
All other nonmetallic mineral products mfg.....	32799	4,481	4,172	8.0	7.4	-309
Mineral wool mfg.....	327993	3,597	3,311	22.3	20.8	-286
Miscellaneous nonmetallic mineral products.....	327999	884	861	8.1	7.8	-23
Primary metal mfg.....	331	64,859	63,292	18.0	16.3	-1,567
Iron and steel mills and ferroalloy mfg.....	3311	37,831 ⁶	33,812	44.1 ⁶	36.9	-4,019 ⁶
Alumina and aluminum production.....	3313	8,316 ⁶	8,200	15.4 ⁶	14.4	-116 ⁶
Other nonferrous metal production.....	3314	9,788 ⁶	10,493	16.9 ⁶	17.2	705 ⁶
Foundries.....	3315	8,925	10,787	8.0	8.9	1,862
Fabricated metal product mfg.....	332	31,476	30,310	2.5	2.3	-1,166
Forging and stamping.....	3321	1,565	1,527	1.8	1.6	-38
Architectural and structural metals mfg.....	3323	21,720	21,792	6.8	6.6	72
Plate work and fabricated structural products.....	33231	9,508	9,124	6.5	6.0	-384
Fabricated structural metal mfg.....	332312	9,508	9,124	12.4	11.5	-384
Ornamental and architectural metal products.....	33232	12,213	12,668	7.1	7.2	455
Metal window and door mfg.....	332321	12,213	12,668	24.1	25.5	455
Other fabricated metal product mfg.....	3329	8,190	6,991	3.3	2.8	-1,199

See footnotes at end of table.

Table 3. Green Goods and Services (GGS) private sector employment by detailed industry, annual averages — Continued

Industry	NAICS ¹	GGS employment ²		GGS percent ³		GGS employment change from: 2010 - 2011
		2010	2011	2010	2011	
Metal valve mfg.....	33291	7,201	6,273	9.0	7.6	-928
Industrial valve mfg.....	332911	3,597	3,579	15.5	14.8	-18
Plumbing fixture fitting and trim mfg.....	332913	1,716	1,608	17.8	17.2	-108
Other metal valve and pipe fitting mfg.....	332919	1,888	1,085	11.6	6.9	-803
All other fabricated metal product mfg.....	33299	989	718	0.6	0.4	-271
Fabricated pipe and pipe fitting mfg.....	332996	989	718	3.6	2.4	-271
Machinery mfg.....	333	67,057	69,097	6.8	6.6	2,040
Ag., construction, and mining machinery mfg.....	3331	— ⁴	— ⁴	— ⁴	— ⁴	—
Commercial and service industry machinery.....	3333	10,618 ⁶	10,577	11.5 ⁶	11.5	-41 ⁶
HVAC and commercial refrigeration equipment.....	3334	41,412	42,242	32.9	32.7	830
HVAC and commercial refrigeration equipment.....	33341	41,412	42,242	32.9	32.7	830
Fan, blower, air purification equipment mfg.....	333413	8,502	9,000	32.5	32.9	498
Heating equipment, except warm air furnaces.....	333414	5,550	5,736	34.8	33.3	186
AC, refrigeration, and forced air heating.....	333415	27,360	27,507	32.7	32.5	147
Metalworking machinery mfg.....	3335	— ⁴	— ⁴	— ⁴	— ⁴	—
Turbine and power transmission equipment mfg.....	3336	14,328	15,540	15.7	15.7	1,212
Turbine and power transmission equipment mfg.....	33361	14,328	15,540	15.7	15.7	1,212
Turbine and turbine generator set units mfg.....	333611	13,400	14,439	50.3	49.7	1,039
Engine and power transmission equipment mfg., excl. turbine mfg.....	333612,3	928	1,100	3.8	4.1	172
Computer and electronic product mfg.....	334	65,759	74,105	6.0	6.7	8,346
Computer and peripheral equipment mfg.....	3341	23,706	24,723	14.9	15.7	1,017
Communications equipment mfg.....	3342	2,827	2,688	2.4	2.3	-139
Audio and video equipment mfg.....	3343	628	770	3.1	3.9	142
Semiconductor and electronic component mfg.....	3344	22,491	27,454	6.1	7.2	4,963
Electronic instrument mfg.....	3345	16,107	18,470	4.0	4.6	2,363
Electronic instrument mfg.....	33451	16,107	18,470	4.0	4.6	2,363
Automatic environmental control mfg.....	334512	2,310	2,515	12.7	14.0	205
Industrial process variable instruments.....	334513	4,584	5,528	8.2	9.5	944
Totalizing fluid meters and counting devices.....	334514	2,488	3,302	23.0	30.0	814
Electricity and signal testing instruments.....	334515	2,736	3,015	6.8	7.2	279
Analytical laboratory instrument mfg.....	334516	1,813	1,764	5.9	5.6	-49
Other measuring and controlling device mfg.....	334519	2,176 ⁶	2,346	6.6 ⁶	7.1	170 ⁶
Electrical equipment and appliance mfg.....	335	41,865	45,998	11.8	12.6	4,133
Electric lighting equipment mfg.....	3351	11,214	13,030	24.8	28.9	1,816
Electric lamp bulb and part mfg.....	33511	3,844	4,058	42.4	45.5	214
Lighting fixture mfg.....	33512	7,371	8,971	20.4	24.7	1,600
Residential electric lighting fixture mfg.....	335121	885	956	10.8	11.9	71
Nonresidential electric lighting fixture mfg.....	335122	4,618	5,726	24.2	29.7	1,108
Other lighting equipment mfg.....	335129	1,868	2,289	21.0	25.8	421
Household appliance mfg.....	3352	13,879	14,859	23.7	26.4	980
Small electrical appliance mfg.....	33521	— ⁴	— ⁴	— ⁴	— ⁴	—
Major appliance mfg.....	33522	— ⁴	— ⁴	— ⁴	— ⁴	—
Household cooking appliance mfg.....	335221	— ⁴	— ⁴	— ⁴	— ⁴	—
Household refrigerator and home freezer mfg.....	335222	— ⁴	3,443	— ⁴	25.8	—
Household laundry equipment mfg.....	335224	— ⁴	— ⁴	— ⁴	— ⁴	—
Other major household appliance mfg.....	335228	— ⁴	— ⁴	— ⁴	— ⁴	—
Electrical equipment mfg.....	3353	8,036	9,222	6.0	6.7	1,186
Electrical equipment mfg.....	33531	8,036	9,222	6.0	6.7	1,186
Electric power and specialty transformer mfg.....	335311	3,979	4,328	16.6	18.0	349
Motor and generator mfg.....	335312	4,057	4,894	10.5	12.3	837
Other electrical equipment and component mfg.....	3359	8,736	8,887	7.4	7.1	151
Battery mfg.....	33591	4,590	4,642	19.1	17.7	52
Storage battery mfg.....	335911	— ⁴	— ⁴	— ⁴	— ⁴	—
Primary battery mfg.....	335912	— ⁴	— ⁴	— ⁴	— ⁴	—
Other electrical equipment and component mfg.....	33599	4,147	4,245	12.5	12.0	98
Miscellaneous electrical equipment mfg.....	335999	4,147	4,245	15.7	15.2	98
Transportation equipment mfg.....	336	43,243	45,367	3.3	3.3	2,124
Motor vehicle mfg.....	3361	12,740	11,888	8.3	7.4	-852
Motor vehicle parts mfg.....	3363	22,615 ⁶	25,490	5.4 ⁶	5.7	2,875 ⁶
Railroad rolling stock mfg.....	3365	— ⁴	— ⁴	— ⁴	— ⁴	—
Ship and boat building.....	3366	— ⁴	— ⁴	— ⁴	— ⁴	—
Furniture and related product mfg.....	337	12,066	12,469	3.4	3.6	403
Office furniture and fixtures mfg.....	3372	9,585	9,779	10.0	10.0	194

See footnotes at end of table.

Table 3. Green Goods and Services (GGS) private sector employment by detailed industry, annual averages — Continued

Industry	NAICS ¹	GGS employment ²		GGS percent ³		GGS employment change from: 2010 - 2011
		2010	2011	2010	2011	
Other furniture related product mfg.....	3379	2,481	2,690	6.8	7.6	209
Trade.....	42,44-45	205,567	223,079	1.0	1.1	17,512
Merchant wholesalers, durable goods.....	423	94,916	104,913	3.5	3.8	9,997
Misc. durable goods merchant wholesalers.....	4239	94,916	104,913	34.4	36.1	9,997
Miscellaneous store retailers.....	453	110,651	118,166	14.3	15.2	7,515
Used merchandise stores.....	4533	110,651	118,166	88.2	88.7	7,515
Transportation and warehousing.....	48-49	242,137	238,755	6.1	5.9	-3,382
Water transportation.....	483	2,393	2,180	3.8	3.4	-213
Sea, coastal, and Great Lakes transportation.....	4831	1,751	1,586	4.7	4.1	-165
Inland water transportation.....	4832	642	595	2.6	2.4	-47
Transit and ground passenger transportation.....	485	239,744	236,574	57.2	55.0	-3,170
Urban transit systems.....	4851	34,935	34,956	84.7	84.5	21
Interurban and rural bus transportation.....	4852	11,528	11,494	62.7	62.5	-34
School and employee bus transportation.....	4854	167,924	166,916	91.9	90.9	-1,008
Charter bus industry.....	4855	17,326	15,194	58.4	50.2	-2,132
Other ground passenger transportation.....	4859	8,030	8,014	10.1	9.5	-16
Information.....	51	33,321	29,412	1.2	1.1	-3,909
Publishing industries, except Internet.....	511	22,355	21,160	3.0	2.8	-1,195
Newspaper, book, and directory publishers.....	5111	12,118	11,025	2.4	2.3	-1,093
Software publishers.....	5112	10,237	10,135	4.0	3.8	-102
Motion picture and sound recording industries.....	512	- ⁴	- ⁴	- ⁴	- ⁴	-
Motion picture and video industries.....	5121	- ⁴	- ⁴	- ⁴	- ⁴	-
Broadcasting, except Internet.....	515	7,525	5,352	2.6	1.9	-2,173
Radio and television broadcasting.....	5151	- ⁴	- ⁴	- ⁴	- ⁴	-
Cable and other subscription programming.....	5152	- ⁴	- ⁴	- ⁴	- ⁴	-
Other information services.....	519	- ⁴	- ⁴	- ⁴	- ⁴	-
Other information services.....	5191	- ⁴	- ⁴	- ⁴	- ⁴	-
Financial activities.....	52,53	462	475	0.0	0.0	13
Securities, commodity contracts, investments.....	523	462	475	0.1	0.1	13
Professional and Technical Services.....	54	355,386	381,981	4.8	5.0	26,595
Professional and technical services.....	541	355,386	381,981	4.8	5.0	26,595
Legal services.....	5411	- ⁴	- ⁴	- ⁴	- ⁴	-
Architectural and engineering services.....	5413	184,628	192,393	14.4	14.9	7,765
Engineering services.....	54133	113,031	122,619	13.0	14.0	9,588
Architectural and related services excl. engineering services.....	54131,2,5,6,7,8	71,597	69,774	17.7	17.0	-1,823
Specialized design services.....	5414	3,088	3,077	2.7	2.7	-11
Computer systems design and related services.....	5415	54,792	67,348	3.8	4.4	12,556
Management and technical consulting services.....	5416	68,476	72,121	6.8	6.7	3,645
Scientific research and development services.....	5417	36,949	39,590	6.0	6.3	2,641
Research and development in the physical, engineering, and life sciences.....	54171	36,949	39,590	6.6	6.9	2,641
Physical, engineering and biological research.....	541711	3,680	3,884	2.7	2.8	204
Other physical and biological research.....	541712	33,268	35,706	7.8	8.2	2,438
Advertising, PR, and related services.....	5418	- ⁴	- ⁴	- ⁴	- ⁴	-
Other professional and technical services.....	5419	- ⁴	- ⁴	- ⁴	- ⁴	-
Management of companies and enterprises.....	55	62,630	69,310	3.4	3.6	6,680
Management of companies and enterprises.....	551	62,630	69,310	3.4	3.6	6,680
Management of companies and enterprises.....	5511	62,630	69,310	3.4	3.6	6,680
Administrative and waste services.....	56	330,650	335,417	4.5	4.3	4,767
Administrative and support services.....	561	24,963	20,440	0.4	0.3	-4,523
Travel arrangement and reservation services.....	5615	405	537	0.2	0.3	132
Services to buildings and dwellings.....	5617	24,557	19,903	1.4	1.1	-4,654
Waste management and remediation services.....	562	305,688	314,977	85.9	86.6	9,289
Waste collection.....	5621	124,712	131,048	89.8	90.1	6,336
Waste treatment and disposal.....	5622	89,090	87,951	93.2	93.1	-1,139
Waste treatment and disposal.....	56221	89,090	87,951	93.2	93.1	-1,139
Hazardous waste treatment and disposal.....	562211	35,287	34,211	94.6	93.4	-1,076
Solid waste landfill.....	562212	35,485	35,039	94.0	93.2	-446
Solid waste combustors and incinerators.....	562213	5,854	5,555	95.2	96.8	-299
Other nonhazardous waste disposal.....	562219	12,465	13,146	86.7	90.6	681
Remediation and other waste services.....	5629	91,886	95,979	75.6	77.6	4,093
Remediation services.....	56291	57,474	58,251	75.5	75.9	777

See footnotes at end of table.

Table 3. Green Goods and Services (GGS) private sector employment by detailed industry, annual averages — Continued

Industry	NAICS ¹	GGS employment ²		GGS percent ³		GGS employment change from: 2010 - 2011
		2010	2011	2010	2011	
Materials recovery facilities.....	56292	11,219	12,474	90.6	93.0	1,255
All other waste management services.....	56299	23,193	25,254	70.3	75.3	2,061
Septic tank and related services.....	562991	14,395	15,994	73.6	81.0	1,599
Miscellaneous waste management services.....	562998	8,798	9,260	65.5	67.2	462
Education and health services.....	61,62	28,789	26,123	0.2	0.1	-2,666
Educational services.....	611	28,789	26,123	1.2	1.0	-2,666
Leisure and hospitality.....	71,72	20,642	23,696	0.2	0.2	3,054
Museums, historical sites, zoos, and parks.....	712	20,642	23,696	16.2	18.1	3,054
Museums, historical sites, zoos, and parks.....	7121	20,642	23,696	16.2	18.1	3,054
Other services, except public administration.....	81	51,841	56,257	1.2	1.3	4,416
Repair and maintenance.....	811	21,134	22,100	1.9	1.9	966
Automotive repair and maintenance.....	8111	7,757	6,652	1.0	0.8	-1,105
Electronic equipment repair and maintenance.....	8112	5,247	4,857	5.4	4.9	-390
Commercial machinery repair and maintenance.....	8113	5,319	7,200	3.1	3.9	1,881
Household goods repair and maintenance.....	8114	2,811	3,391	4.2	5.0	580
Membership associations and organizations.....	813	30,707	34,157	2.3	2.6	3,450
Grantmaking and giving services.....	8132	2,817	3,662	2.3	2.9	845
Social advocacy organizations.....	8133	20,277	20,800	10.6	10.7	523
Professional and similar organizations.....	8139	7,613	9,695	1.8	2.3	2,082

1 North American Industry Classification System, 2012.

2 GGS employment is the number of jobs related to the production of Green Goods and Services. This table reflects private ownership only.

3 GGS percent is the percentage of the GGS employment compared to the total employment. This value is derived by dividing the GGS employment by the total employment.

4 Data do not meet BLS disclosure standards.

5 Estimate cannot be created due to the conversion from NAICS 2007 to NAICS 2012.

6 The 2012 NAICS conversion changed the GGS scope for this industry. BLS utilized backcasting to make the 2010 and 2011 estimates comparable. See the extended technical note for more detail.

NOTE: GGS data for 2010 have been revised to incorporate methodological changes explained in the Technical Note. Please also note data may not add to total due to rounding.

Table 4. Green Goods and Services (GGS) employment by state, annual averages

State	Total, all ownerships					Private ownership				
	2010		2011		GGS employment change from: 2010 - 2011	2010		2011		GGS employment change from: 2010 - 2011
	GGS employment ¹	GGS percent ²	GGS employment ¹	GGS percent ²		GGS employment ¹	GGS percent ²	GGS employment ¹	GGS percent ²	
United States.....	3,243,533	2.5	3,401,279	2.6	157,746	2,342,562	2.2	2,515,200	2.3	172,638
Alabama.....	51,372	2.8	54,077	3.0	2,705	36,215	2.5	39,703	2.7	3,488
Alaska.....	11,999	3.8	12,119	3.8	120	5,591	2.4	5,893	2.4	302
Arizona.....	43,161	1.8	48,851	2.1	5,690	33,181	1.7	39,535	2.0	6,354
Arkansas.....	32,311	2.8	33,420	2.9	1,109	24,509	2.6	26,351	2.8	1,842
California.....	342,879	2.4	360,245	2.5	17,366	239,416	2.0	268,486	2.2	29,070
Colorado.....	72,657	3.3	72,629	3.3	-28	53,895	3.0	52,859	2.9	-1,036
Connecticut.....	41,385	2.6	43,722	2.7	2,337	34,397	2.5	36,577	2.7	2,180
Delaware.....	8,973	2.2	9,872	2.4	899	6,440	1.9	7,331	2.1	891
District of Columbia...	33,742	4.9	35,799	5.1	2,057	10,570	2.4	11,115	2.4	545
Florida.....	108,948	1.5	117,433	1.6	8,485	93,160	1.5	98,249	1.6	5,089
Georgia.....	79,680	2.1	84,356	2.2	4,676	58,987	1.9	64,205	2.0	5,218
Hawaii.....	15,528	2.6	17,596	3.0	2,068	9,483	2.0	11,425	2.4	1,942
Idaho.....	23,676	3.9	24,250	4.0	574	14,515	2.9	15,138	3.0	623
Illinois.....	134,153	2.4	136,447	2.5	2,294	103,244	2.2	105,751	2.2	2,507
Indiana.....	68,108	2.5	70,156	2.5	2,048	58,720	2.5	61,159	2.6	2,439
Iowa.....	40,540	2.8	43,791	3.0	3,251	32,946	2.7	35,879	2.9	2,933
Kansas.....	26,339	2.0	25,632	2.0	-707	19,126	1.8	19,097	1.8	-29
Kentucky.....	40,726	2.4	43,027	2.5	2,301	27,729	2.0	28,770	2.0	1,041
Louisiana.....	43,808	2.4	44,373	2.4	565	32,970	2.2	33,328	2.2	358
Maine.....	15,352	2.7	16,951	2.9	1,599	11,166	2.3	12,680	2.6	1,514
Maryland.....	77,346	3.2	91,489	3.7	14,143	50,880	2.6	63,638	3.2	12,758
Massachusetts.....	84,198	2.7	88,924	2.8	4,726	70,720	2.6	75,071	2.7	4,351
Michigan.....	85,228	2.3	82,644	2.1	-2,584	71,473	2.2	69,116	2.1	-2,357
Minnesota.....	78,709	3.1	75,302	2.9	-3,407	62,545	2.9	60,509	2.7	-2,036
Mississippi.....	21,167	2.0	21,933	2.0	766	14,780	1.8	16,114	1.9	1,334
Missouri.....	65,271	2.5	68,534	2.7	3,263	42,093	2.0	46,625	2.2	4,532
Montana.....	14,596	3.5	14,306	3.4	-290	8,709	2.6	8,211	2.4	-498
Nebraska.....	20,896	2.3	22,392	2.5	1,496	14,640	2.0	16,491	2.2	1,851
Nevada.....	21,360	1.9	21,861	2.0	501	13,676	1.4	15,569	1.6	1,893
New Hampshire.....	14,011	2.3	16,244	2.7	2,233	12,309	2.4	14,471	2.8	2,162
New Jersey.....	73,411	2.0	81,018	2.2	7,607	53,449	1.7	61,160	1.9	7,711
New Mexico.....	22,884	2.9	24,337	3.1	1,453	14,208	2.4	15,481	2.6	1,273
New York.....	255,315	3.1	266,308	3.2	10,993	141,307	2.0	156,397	2.2	15,090
North Carolina.....	101,415	2.7	108,094	2.8	6,679	77,036	2.5	83,017	2.6	5,981
North Dakota.....	8,783	2.4	9,481	2.5	698	5,972	2.1	6,891	2.2	919
Ohio.....	129,063	2.6	137,143	2.8	8,080	95,718	2.3	103,917	2.4	8,199
Oklahoma.....	25,893	1.7	29,035	1.9	3,142	16,800	1.4	20,343	1.7	3,543
Oregon.....	60,878	3.8	68,709	4.3	7,831	40,254	3.1	49,249	3.7	8,995
Pennsylvania.....	160,494	2.9	167,397	3.0	6,903	129,372	2.7	136,557	2.8	7,185
Rhode Island.....	12,420	2.8	12,327	2.7	-93	9,557	2.5	9,401	2.4	-156
South Carolina.....	43,592	2.5	44,210	2.5	618	32,591	2.3	33,002	2.3	411
South Dakota.....	10,078	2.6	10,578	2.7	500	6,325	2.0	6,865	2.1	540
Tennessee.....	68,145	2.7	71,111	2.7	2,966	50,132	2.3	53,979	2.5	3,847
Texas.....	233,304	2.3	227,532	2.2	-5,772	179,744	2.1	177,155	2.1	-2,589
Utah.....	27,544	2.4	27,864	2.4	320	17,844	1.9	17,098	1.8	-746
Vermont.....	11,483	3.9	12,159	4.1	676	9,080	3.8	9,571	3.9	491
Virginia.....	96,490	2.7	107,773	3.0	11,283	65,142	2.3	74,990	2.6	9,848
Washington.....	95,769	3.4	101,593	3.6	5,824	64,985	2.8	69,332	3.0	4,347
West Virginia.....	14,626	2.1	16,221	2.3	1,595	7,931	1.4	9,013	1.6	1,082
Wisconsin.....	63,754	2.4	69,647	2.6	5,893	52,328	2.3	57,318	2.5	4,990
Wyoming.....	10,071	3.7	10,369	3.8	298	4,700	2.3	5,117	2.4	417

1 GGS employment is the number of jobs related to the production of Green Goods and Services.

2 GGS percent is the percentage of the GGS employment compared to the total employment. This value is derived by dividing the GGS employment by the total employment.

NOTE: GGS data for 2010 have been revised to incorporate methodological changes explained in the Technical Note. Please also note data may not add to total due to rounding.

Table 5. Green Goods and Services (GGS) private sector employment percent by state and industry sector, 2011 annual averages¹

State	Total private	Natural resources and mining	Utilities	Construction	Manufacturing	Trade	Transportation and warehousing	Information	Financial activities	Professional, scientific, and technical services	Management of companies and enterprises	Administrative and waste services	Education and health services	Leisure and hospitality	Other services, except public administration
United States...	2.3	3.4	12.9	8.9	4.3	1.1	5.9	1.1	0.0	5.0	3.6	4.3	0.1	0.2	1.3
Alabama.....	2.7	6.2	2	6.2	5.7	1.8	2.9	2	2	3.4	2	5.5	2	0.1	2
Alaska.....	2.4	2	11.3	8.1	2	0.9	5.5	2	2	7.6	2	12.0	2	2	3.7
Arizona.....	2.0	5.5	3.0	10.4	1.7	1.5	5.2	2	2	5.0	2	2.8	2	0.3	1.5
Arkansas.....	2.8	5.2	20.3	9.4	6.9	1.1	2	2	2	4.6	2	6.2	2	2	2
California.....	2.2	4.1	13.6	9.7	2.9	1.1	3.5	2	2	4.1	2	5.7	2	0.3	1.3
Colorado.....	2.9	2	7.0	8.0	5.1	1.6	3.9	4.5	2	8.7	2	6.3	2	0.3	1.6
Connecticut.....	2.7	2	26.2	10.3	3.2	0.8	20.5	2	2	7.4	2	6.8	2	0.3	2
Delaware.....	2.1	2	2	10.2	4.4	2	14.9	2	2	3.9	2	4.0	2	2	1.7
District of Columbia.....	2.4	3	2	10.5	2	2	2	2	2	5.8	2	1.0	2	2	2.9
Florida.....	1.6	3.5	9.9	8.2	3.1	0.7	3.0	2	2	3.0	2	3.3	2	0.1	1.4
Georgia.....	2.0	6.4	13.3	8.1	5.0	1.1	1.4	2	2	3.8	2	2.6	2	0.3	3.3
Hawaii.....	2.4	2	6.8	13.2	2	1.2	9.1	2	2	7.7	2	3.4	2	0.2	0.9
Idaho.....	3.0	4.8	16.4	11.2	3.3	1.0	7.8	2	2	6.2	2	5.7	2	2	2
Illinois.....	2.2	2.4	2	9.4	3.0	1.0	8.0	2.3	2	3.8	2	4.1	2	2	0.9
Indiana.....	2.6	5.8	6.0	10.0	4.6	1.9	1.9	2.3	2	5.5	2	3.8	2	2	1.3
Iowa.....	2.9	3.9	16.5	11.8	8.5	1.2	2.6	2	2	2.9	6.6	3.2	2	2	2
Kansas.....	1.8	1.8	2	6.0	2.5	1.0	6.6	2	2	4.0	2	3.4	2	2	2
Kentucky.....	2.0	2	3.2	8.8	4.5	1.5	0.7	2	2	3.9	2	4.9	2	0.1	2
Louisiana.....	2.2	2.1	24.1	4.4	2.9	0.9	3.1	2	2	4.5	2	8.7	2	2	2
Maine.....	2.6	11.0	37.7	9.9	3.4	1.1	6.5	2	2	10.0	2	7.3	2	0.1	2.1
Maryland.....	3.2	2	2	13.4	6.3	1.2	9.0	2	2	6.8	2	5.3	2	2	1.1
Massachusetts...	2.7	2	9.2	7.7	3.7	0.7	15.9	4.4	2	5.7	2	5.5	1.2	0.2	1.8
Michigan.....	2.1	5.9	8.2	10.0	4.1	1.1	3.2	2.5	2	3.3	4.0	3.7	2	2	1.1
Minnesota.....	2.7	5.1	5.7	10.1	5.8	1.1	12.6	2	2	6.7	2	4.3	2	2	1.2
Mississippi.....	1.9	7.7	16.6	5.9	1.7	0.9	2.1	2	2	5.8	2	5.3	2	2	1.6
Missouri.....	2.2	3.7	4.8	7.6	3.9	1.4	6.7	2	2	5.7	2	4.5	2	2	0.9
Montana.....	2.4	2.2	2	6.0	4.0	1.0	8.4	2	2	11.0	2	6.6	2	2	2.5
Nebraska.....	2.2	3.3	2	10.1	4.3	0.9	3.1	2	2	4.2	2	4.3	2	2	2
Nevada.....	1.6	2	8.8	9.4	3.1	1.3	4.9	2	2	3.6	2	3.0	2	2	1.3
New Hampshire...	2.8	2	42.6	8.4	5.0	0.9	19.6	2	2	6.6	2	5.1	2	2	2.3
New Jersey.....	1.9	2	15.5	8.1	2.5	0.8	12.0	2	2	3.4	2	3.1	2	0.1	2
New Mexico.....	2.6	2	3.1	11.8	3.4	1.0	11.3	2	2	6.4	2	3.6	2	0.1	3.5
New York.....	2.2	4.9	9.4	10.0	4.8	0.7	17.7	2	2	3.8	2	4.3	2	0.3	0.8
North Carolina...	2.6	3.2	19.8	9.9	6.4	1.2	2.2	2	2	4.7	10.6	2.4	2	2	0.8
North Dakota...	2.2	1.2	4.2	6.0	10.7	0.9	3.0	2	2	4.7	2	5.5	2	2	2
Ohio.....	2.4	2	11.6	13.0	4.5	1.5	2.6	2	2	5.4	2	4.5	2	0.2	2
Oklahoma.....	1.7	2	2.5	8.8	5.7	1.2	2	2	2	2	2	2.2	2	2	2
Oregon.....	3.7	7.4	9.1	9.0	9.3	1.5	5.7	2	2	6.9	12.3	6.1	2	0.2	3.1
Pennsylvania...	2.8	1.8	20.7	6.1	6.3	1.0	11.9	2	2	5.6	7.5	5.7	2	0.3	1.2
Rhode Island...	2.4	2	2	6.3	5.1	1.3	18.1	2	2	8.3	2	6.4	2	2	2
South Carolina...	2.3	7.6	32.1	8.3	4.1	1.0	2.1	2	2	4.5	2	3.6	2	0.1	1.0
South Dakota...	2.1	6.8	5.9	7.8	4.5	1.1	7.1	2	2	2	2	6.3	2	2	2.2
Tennessee.....	2.5	4.2	6.0	6.5	7.4	1.4	2.8	2	2	5.9	2	3.5	2	0.2	0.9
Texas.....	2.1	0.8	10.2	8.2	3.3	1.1	2.6	2.1	2	5.7	2	3.2	2	0.2	1.1
Utah.....	1.8	2	6.1	4.1	3.0	0.8	1.0	2	2	3.5	2	6.7	2	2	1.1
Vermont.....	3.9	10.2	2	12.1	6.9	0.8	13.3	1.8	2	13.5	2	9.5	2	2	2.7
Virginia.....	2.6	2	18.0	9.8	4.5	1.2	2.7	2	2	6.5	2	3.5	2	0.1	2.1
Washington.....	3.0	10.7	12.2	9.3	2.4	1.3	3.0	2	2	8.2	2	9.4	2	2	1.7
West Virginia...	1.6	2	4.6	6.2	3.1	0.9	2	1.7	2	5.2	2	6.1	2	2	1.7

See footnotes at end of table.

Table 5. Green Goods and Services (GGS) private sector employment percent by state and industry sector, 2011 annual averages¹ — Continued

State	Total private	Natural resources and mining	Utilities	Construction	Manufacturing	Trade	Transportation and warehousing	Information	Financial activities	Professional, scientific, and technical services	Management of companies and enterprises	Administrative and waste services	Education and health services	Leisure and hospitality	Other services, except public administration
Wisconsin.	2.5	7.1	18.2	8.4	3.9	1.5	11.3	-.2	-.2	6.6	-.2	2.6	-.2	-.2	-.2
Wyoming.	2.4	-.2	4.2	8.3	3.7	1.2	-.2	-.2	-.2	13.9	-.2	7.9	-.2	-.2	2.7

1 GGS percent is the percentage of the GGS employment compared to the total employment. This value is derived by dividing the GGS employment (Table 6) by the Quarterly Census of Employment and Wages twelve month average employment ending December 2011 for the corresponding state and industry sector.

2 Data do not meet BLS disclosure standards.

3 No private sector establishments are classified in this industry.

NOTE: Data may not add to total due to rounding.

Table 6. Green Goods and Services (GGS) private sector employment by state and industry sector, 2011 annual averages¹

State	Total private	Natural resources and mining	Utilities	Construction	Manufacturing	Trade	Transportation and warehousing	Information	Financial activities	Professional, scientific, and technical services	Management of companies and enterprises	Administrative and waste services	Education and health services	Leisure and hospitality	Other services, except public administration
United States...	2,515,200	64,689	71,129	487,709	507,168	223,079	238,755	29,412	475	381,981	69,310	335,417	26,123	23,696	56,257
Alabama.....	39,703	1,238	- ²	4,988	13,518	5,237	1,432	- ²	- ²	3,165	- ²	5,659	- ²	217	- ²
Alaska.....	5,893	- ²	238	1,273	- ²	376	1,052	- ²	- ²	1,097	- ²	1,381	- ²	- ²	375
Arizona.....	39,535	1,962	359	11,517	2,501	5,953	3,466	- ²	- ²	6,165	- ²	5,535	- ²	701	1,018
Arkansas.....	26,351	1,105	1,457	4,424	11,019	1,900	- ²	- ²	- ²	1,795	- ²	3,464	- ²	- ²	- ²
California.....	268,486	16,906	7,899	54,070	36,417	23,789	14,151	- ²	- ²	43,279	- ²	50,022	- ²	4,103	9,069
Colorado.....	52,859	- ²	572	8,969	6,551	5,312	2,269	- ²	3,205	14,900	- ²	8,604	- ²	685	1,066
Connecticut.....	36,577	- ²	1,614	5,280	5,261	1,857	8,112	- ²	- ²	6,486	- ²	5,478	- ²	434	- ²
Delaware.....	7,331	- ²	- ²	1,972	1,131	- ²	1,327	- ²	- ²	1,009	- ²	873	- ²	- ²	216
District of Columbia.....	11,115	- ³	- ²	1,265	- ²	- ²	- ²	- ²	- ²	5,958	- ²	438	- ²	- ²	1,839
Florida.....	98,249	3,028	2,219	27,289	9,615	8,482	6,230	- ²	- ²	13,278	- ²	17,278	- ²	1,247	3,370
Georgia.....	64,205	1,861	2,631	11,792	17,513	7,012	2,178	- ²	- ²	8,527	- ²	7,008	- ²	1,297	3,117
Hawaii.....	11,425	- ²	227	3,743	- ²	973	2,152	- ²	- ²	1,867	- ²	1,501	- ²	201	215
Idaho.....	15,138	1,174	460	3,292	1,818	1,021	1,302	- ²	- ²	1,966	- ²	2,111	- ²	- ²	- ²
Illinois.....	105,751	596	- ²	18,351	17,089	9,084	17,625	2,290	- ²	13,551	- ²	15,423	- ²	- ²	1,870
Indiana.....	61,159	1,152	887	11,988	21,469	8,016	1,992	787	- ²	5,438	- ²	6,196	- ²	- ²	1,021
Iowa.....	35,879	735	1,088	7,353	17,525	2,854	1,371	- ²	- ²	1,249	974	2,154	- ²	- ²	- ²
Kansas.....	19,097	340	- ²	3,148	4,023	1,969	2,635	- ²	- ²	2,386	- ²	2,560	- ²	- ²	- ²
Kentucky.....	28,770	- ²	208	5,935	9,651	4,011	593	- ²	- ²	2,718	- ²	4,788	- ²	149	- ²
Louisiana.....	33,328	1,249	2,244	5,322	3,981	2,526	2,084	- ²	- ²	3,653	- ²	7,901	- ²	- ²	- ²
Maine.....	12,680	670	606	2,503	1,731	1,119	970	- ²	- ²	2,349	- ²	1,946	- ²	48	342
Maryland.....	63,638	- ²	- ²	19,243	7,081	4,243	5,672	- ²	- ²	15,573	- ²	7,718	- ²	- ²	989
Massachusetts.....	75,071	- ²	958	8,582	9,299	3,048	11,067	3,674	- ²	14,736	- ²	8,917	7,351	708	2,426
Michigan.....	69,116	1,921	1,575	12,467	20,650	6,389	3,025	1,342	- ²	7,723	2,121	9,924	- ²	- ²	1,362
Minnesota.....	60,509	1,276	733	9,279	17,352	4,476	9,286	- ²	- ²	8,566	- ²	5,557	- ²	- ²	991
Mississippi.....	16,114	1,501	1,287	2,900	2,276	1,478	805	- ²	- ²	1,832	- ²	2,754	- ²	- ²	353
Missouri.....	46,625	558	598	7,858	9,575	5,663	5,336	- ²	- ²	7,029	- ²	6,497	- ²	- ²	806
Montana.....	8,211	264	- ²	1,351	671	738	- ²	- ²	- ²	2,090	- ²	1,299	- ²	- ²	394
Nebraska.....	16,491	443	- ²	4,100	4,005	1,346	1,200	- ²	- ²	1,795	- ²	1,821	- ²	- ²	- ²
Nevada.....	15,569	- ²	367	4,899	1,166	2,051	2,261	- ²	- ²	1,674	- ²	2,224	- ²	- ²	355
New Hampshire.....	14,471	- ²	1,054	1,866	3,349	1,070	2,371	- ²	- ²	1,958	- ²	1,464	- ²	- ²	455
New Jersey.....	61,160	- ²	2,093	10,410	6,198	5,436	17,623	- ²	- ²	9,302	- ²	7,647	- ²	174	- ²
New Mexico.....	15,481	- ²	137	4,988	1,000	1,162	1,862	- ²	- ²	3,423	- ²	1,514	- ²	54	722
New York.....	156,397	1,369	3,507	30,657	21,719	8,785	38,670	- ²	- ²	21,830	- ²	18,309	- ²	2,025	2,486
North Carolina.....	83,017	997	2,400	17,154	27,616	7,097	2,329	- ²	- ²	8,804	8,196	6,017	- ²	- ²	742
North Dakota.....	6,891	240	142	1,461	2,538	628	426	- ²	- ²	595	- ²	697	- ²	- ²	- ²
Ohio.....	103,917	- ²	2,234	22,893	28,771	11,659	4,121	- ²	- ²	13,152	- ²	13,017	- ²	1,204	- ²
Oklahoma.....	20,343	- ²	276	6,030	7,390	2,696	- ²	- ²	- ²	- ²	- ²	2,110	- ²	- ²	- ²
Oregon.....	49,249	3,430	407	6,067	15,564	3,870	2,640	- ²	- ²	5,075	3,730	5,092	- ²	294	1,929
Pennsylvania.....	136,557	1,007	4,627	13,551	35,852	8,748	24,409	- ²	- ²	17,382	9,293	16,020	- ²	1,336	2,259
Rhode Island.....	9,401	- ²	992	2,061	992	791	1,662	- ²	- ²	1,747	- ²	1,490	- ²	- ²	- ²
South Carolina.....	33,002	923	3,830	6,404	8,759	2,840	963	- ²	- ²	3,567	- ²	4,832	- ²	216	460
South Dakota.....	6,865	356	123	1,573	1,767	751	674	- ²	- ²	- ²	- ²	857	- ²	- ²	223
Tennessee.....	53,979	469	200	6,831	22,502	6,164	3,543	- ²	- ²	6,395	- ²	6,401	- ²	580	619
Texas.....	177,155	2,341	5,021	46,559	27,554	18,727	9,476	4,074	- ²	33,558	- ²	21,159	- ²	1,574	3,299
Utah.....	17,098	- ²	246	2,681	3,371	1,555	446	- ²	- ²	2,412	- ²	4,840	- ²	- ²	342
Vermont.....	9,571	328	- ²	1,701	2,133	399	901	90	- ²	1,847	- ²	915	- ²	- ²	233
Virginia.....	74,990	- ²	1,955	17,382	10,367	6,218	2,587	- ²	- ²	25,584	- ²	7,015	- ²	430	2,632
Washington.....	69,332	9,846	588	11,797	6,291	5,540	2,415	- ²	- ²	13,405	- ²	12,804	- ²	- ²	2,302
West Virginia.....	9,013	- ²	251	2,054	1,536	1,044	- ²	171	- ²	1,290	- ²	1,943	- ²	- ²	361

See footnotes at end of table.

Table 6. Green Goods and Services (GGS) private sector employment by state and industry sector, 2011 annual averages¹ — Continued

State	Total private	Natural resources and mining	Utilities	Construction	Manufacturing	Trade	Transportation and warehousing	Information	Financial activities	Professional, scientific, and technical services	Management of companies and enterprises	Administrative and waste services	Education and health services	Leisure and hospitality	Other services, except public administration
Wisconsin.	57,318	1,796	1,978	7,755	17,398	6,026	9,770	- ²	- ²	6,300	- ²	3,623	- ²	- ²	- ²
Wyoming.	5,117	- ²	105	1,751	340	467	- ²	- ²	- ²	1,264	- ²	621	- ²	- ²	221

1 GGS employment is the number of jobs related to the production of Green Goods and Services. This table reflects private ownership only.

2 Data do not meet BLS disclosure standards.

3 No private sector establishments are classified in this industry.

NOTE: Data may not add to total due to rounding.