



GOVERNOR ARNOLD SCHWARZENEGGER

Dear California Employer,

California employers lead the globe as entrepreneurs, innovators and investors. You have the insights to take advantage of emerging technologies and industries as our state evolves and makes more efficient and sustainable use of our limited natural resources. Our developing green economy offers opportunities for new investments, products, services, markets and jobs.

It is vital that our state works to align your business activities with our public policy investments. The attached survey asks questions related to green activities and how they are influencing your workforce.

By taking a few minutes to complete this survey, you will provide California's public workforce system with information necessary to tailor current worker training programs to better support our green economy. Your response will also provide important feedback as we implement President Obama's American Recovery and Reinvestment Act of 2009.

There are many convenient ways to complete this survey. I encourage you to save time and energy by responding online at www.labormarketinfo.edd.ca.gov and clicking on "Green Survey." You can also return your completed survey in the enclosed envelope or fax it to (916) 262-2607 or (916) 262-2351. Please respond within fifteen days.

Thank you for your time and participation, and I extend my best wishes for every future success.

Sincerely,

A handwritten signature in black ink, reading "Arnold Schwarzenegger". The signature is stylized with a large, flowing "A" and "S".

Arnold Schwarzenegger

CALIFORNIA GREEN ECONOMY SURVEY

Respond to the
Green Economy Survey
online at
www.labormarketinfo.edd.ca.gov
Click on Green Survey

Questions about the
Green Economy Survey?
Call us at 1-888-282-1395

Business Name:

Address:

City, State, Zip:

Please help us better understand California's Green Economy by taking a few minutes to complete the following survey on green jobs and activities in California

1. In total, how many employees work at this location? _____ Type of business _____
2. Of these employees, please indicate how many currently **PRODUCE** goods or services in any of the following GREEN categories. (Count each employee in only one GREEN Category.) If none of these categories apply to your business, please skip to question 4.

G . R . E . E . N . Categories	How many employees currently work any of their time in this Category?	Of these employees, how many work 50% or more of their time in this Category?
Generating and storing renewable energy - Includes alternative energy generated by but not limited to wind, solar, water, biofuels, biomass, hydrogen fuel cells, and geothermal.		
Recycling existing materials - Businesses involved in the collection and processing of recyclable materials, including firms running a recycling or wastewater plant. Includes environmental clean-up and remediation. (Does not include companies that provide bins for recyclable paper, glass, and cans)		
Energy efficient product manufacturing, distribution, construction, installation, and maintenance - Includes companies involved in the research, development, and manufacturing of products such as solar panels, energy efficient light bulbs, and alternative fuel vehicles. Also includes companies that install and repair these products in new or existing residential or commercial real estate, as well as real estate planning and land development.		
Education, compliance, and awareness - Includes training providers for curricula such as solar panel installation, energy auditing and residential consultation, sustainability management, alternative fuel and vehicle systems, etc. Also includes environmental consulting, governmental/legislative compliance, conservation and wildlife programs, trading and offsets, and social assistance.		
Natural and sustainable product manufacturing - Includes companies that create products using natural materials. Also includes businesses that produce safe, nontoxic products; bamboo products; products out of previously recycled materials; and agricultural firms that practice sustainable farming or forestry.		
Other green categories, please specify:		

Employer Number:

CALIFORNIA GREEN ECONOMY SURVEY

3. If your staff produces green products or services as listed in question 2, what methods are used at your firm to prepare current workers to do this work? (*Check all that apply*)
- | | |
|--|--|
| <input type="checkbox"/> In-house classroom training | <input type="checkbox"/> Community College courses |
| <input type="checkbox"/> On-the-job training | <input type="checkbox"/> Vocational training |
| <input type="checkbox"/> Vendor training | <input type="checkbox"/> College Degree (AA/AS or above) |
| <input type="checkbox"/> Apprenticeship programs | <input type="checkbox"/> Other _____ |
| <input type="checkbox"/> Hire only workers who are already trained | |
4. If your business makes use of green practices, services or products, what does your firm currently **USE** on site? (*Check all that apply*)
- | | |
|---|--|
| <input type="checkbox"/> Alternative fuel vehicles | <input type="checkbox"/> Pollution reduction |
| <input type="checkbox"/> Energy efficiency/conservation | <input type="checkbox"/> Water conservation |
| <input type="checkbox"/> Sustainable farming | <input type="checkbox"/> Recycling |
| <input type="checkbox"/> Recycled products | <input type="checkbox"/> Some form of renewable energy such as solar, water, wind, biofuel, etc. |
| <input type="checkbox"/> LEED or energy efficient construction and remodeling | <input type="checkbox"/> Other _____ |
| <input type="checkbox"/> None at this time | |
5. During the next 12 months, do you expect your firm's green practices to:
- ☐ Decrease ☐ Remain the same ☐ Increase
6. What new skills or knowledge will future employees need in order to perform green activities at your firm? (*Check all that apply*)
- | | |
|---|---|
| <input type="checkbox"/> Principles of energy conservation | <input type="checkbox"/> Vehicle technology/maintenance |
| <input type="checkbox"/> Waste minimization | <input type="checkbox"/> Information technology |
| <input type="checkbox"/> Pollution reduction and control | <input type="checkbox"/> Codes/standards/legislation |
| <input type="checkbox"/> Alternative energy (specify) _____ | <input type="checkbox"/> Other _____ |
7. What barriers, if any, stand in the way of implementing green practices at your firm? (*Check all that apply*)
- | | |
|---|--|
| <input type="checkbox"/> Shortage of workers with the knowledge or skills | <input type="checkbox"/> Government policies/regulations |
| <input type="checkbox"/> Shortage of available training programs | <input type="checkbox"/> Costs of implementation |
| <input type="checkbox"/> Training classes too full to enroll | <input type="checkbox"/> Lack of information |
| <input type="checkbox"/> Economic conditions | <input type="checkbox"/> Other _____ |
8. What do you view as the largest benefit to your business in taking steps to reduce greenhouse gas emissions (air pollutants such as carbon dioxide, methane, nitrous oxide, and others)?
- | | |
|---|---------------------------------------|
| <input type="checkbox"/> Advantageous position should some regulation occur | <input type="checkbox"/> Cost-savings |
| <input type="checkbox"/> Competitive advantage/community recognition | <input type="checkbox"/> None |
| <input type="checkbox"/> Environmentally beneficial | <input type="checkbox"/> Other _____ |
9. What resources would help reduce greenhouse gas emissions at your firm? (*Check all that apply*)
- ☐ Information about specific actions to take to cost-effectively reduce greenhouse gas emissions
- ☐ Success stories showing how similar businesses cost-effectively reduce their greenhouse gas emissions
- ☐ Financing options to reduce greenhouse gas emissions
- ☐ Online calculator for businesses to calculate their greenhouse gas emissions
- ☐ Statewide award program to recognize businesses that successfully reduce greenhouse gas emissions
- ☐ Protocol for reporting greenhouse gas emissions
- ☐ Technical support (e.g. training and online questions and answers)
- ☐ None
- ☐ Other _____
10. The State of California has many programs and services available to assist your business. If you would like information from any of the following agencies, please check the area of interest and the agency will contact you. (*Check all that apply*)
- ☐ Small business development assistance from your local Community College
- ☐ Employee training and recruitment from your local Workforce Investment Board
- ☐ Employee retraining programs from the Employment Training Panel
- ☐ Free Basic Skills Training from the California Department of Education
- ☐ How to save money and reduce greenhouse gas emissions from the California Air Resources Board
- ☐ Renewable energy system options (e.g. wind, solar, fuel cell, etc.) from the Energy Commission

Who should be contacted to discuss the area(s) selected in question 10?

Name _____ Telephone _____ Email _____

CALIFORNIA GREEN ECONOMY SURVEY

11. We want to learn more about new and emerging green jobs in California. Does your firm employ individuals involved in green practices or activities that have related job titles or who perform similar tasks to those listed below? Please provide an estimate of current employment in the column to the right. **Employees who work in multiple job categories should be counted only once.**

Green Job Description	Estimate of Current Employees
Air Quality Engineers; Air Pollution Specialists; Air Resources Engineers: Design, plan, or perform engineering duties in the prevention, control, and remediation of environmental health hazards.	
Alternative Energy Engineers: Identify and support the development and implementation of alternative energy solutions (fuel, energy or heat) from biomass, landfill, solar, wind, geothermal, and/or other sources.	
Alternative Fuel Vehicle Technicians: Perform specialized service procedures, including field retrofits and advanced electrical and mechanical troubleshooting on hybrid, electric, hydrogen, and other alternative fuel vehicles.	
Architects, Except Landscape: Plan and design energy efficient structures (such as LEED certified), including private residences, office buildings, theaters, factories, and other structural properties.	
Assemblers: Rotate through all the tasks required in a production process to make green products such as energy efficient appliances, hybrid vehicle parts, and solar panels. Determine work assignments and procedures. Shovel and sweep work areas. Operate heavy equipment. Provide assistance in the production of wiring assemblies.	
Battery Engineers; Energy Storage Project Engineers: Generate plans, and perform tests of advanced battery systems and chargers for vehicles, and other storage applications.	
Biological Technicians (involved in green activities): Assist biological scientists in laboratories. Set up, operate, and maintain laboratory instruments and equipment, monitor experiments, make observations, and calculate and record results.	
Biomass Collectors: Gather waste wood, sawdust from lumber mills, garbage, yard clippings and livestock manure. Burn on-site or place waste products into trucks and deliver to off-site biomass power plants or fuel producers.	
Building Performance or Retro-Fitting Specialists: Provide green building consulting services including analysis of the potential environmental impact of materials choices; develop energy efficiency analysis proposals including budgets and work scopes.	
Carpenters (involved in green activities): Construct, erect, install, or repair structures and fixtures made of wood, such as concrete forms; building frameworks, including partitions, joists, studding, and rafters; wood stairways, window and door frames, and hardwood floors.	
Chemical Technicians: Conduct chemical and physical laboratory tests to assist scientists in making qualitative and quantitative analyses of solids, liquids and gaseous materials for purposes such as research and development of fuels, green products or processes, quality control, and maintenance of environmental standards.	
Civil Engineers: Plan, produce and/or design green land development projects (project management, surveying, water/wastewater, and grading).	
Construction Managers: Manage green construction site/activity including planning, scheduling, constructing, monitoring, forecasting, resource allocation and cost control.	
Electrical Engineers: Develop models for distributed generation equipment (photovoltaic, wind, fuel cells, batteries, turbines, and inverters) and conduct simulation studies for interconnections of distributed generation, electrical distribution systems, and hybrid and electric trucks and cars.	
Electricians (involved in green activities): Install, maintain, and repair electrical wiring, equipment, and fixtures. May install solar electric systems.	
Energy Auditors, Home and Commercial: Conduct energy assessments to identify energy efficiency and renewable energy improvement opportunities and offer recommendations for insulation upgrades. Explain incentives, loans, and tax credits for energy efficiency improvements.	
Energy Regulation Specialists: Perform policy research. Analyze, evaluate, develop and recommend alternatives on various regulatory issues and consult with and advise management, staff and other interested parties.	
Environmental Engineers: Collaborate with environmental scientists, planners, and hazardous waste technicians to address environmental problems. Inspect industrial, municipal facilities, and programs to ensure compliance with environmental regulations.	
Farmers, Sustainable: Operate farms or ranches. Plant, cultivate, harvest, and market crops and livestock without using up soil, water, or other resources faster than they can be replaced. May generate own energy from biomass.	
Hazardous Materials Removal Workers: Identify, remove, pack, transport, or dispose of hazardous materials, including asbestos, lead-based paint, waste oil, fuel, transmission fluid, radioactive materials, and contaminated soil, etc.	

CALIFORNIA GREEN ECONOMY SURVEY

Green Job Description (cont.)	Estimate of Current Employees
Heating and Air Conditioning Technicians and Installers (involved in green activities): Install, service, and repair energy efficient geothermal or solar heating and air conditioning systems in residences and commercial establishments.	
Industrial Production Managers: Review processing schedules and production orders to make decisions concerning inventory, staffing requirements, and work procedures considering budgetary limitations.	
Insulation Workers, Floor, Ceiling, and Wall (Weatherization Workers): Line and cover structures with insulating materials. May work with batt, roll, or blown insulation materials.	
Mechanical Engineers (involved in green activities): Plan and design tools, engines, machines, and other mechanically functioning equipment to be used in green industries. Oversee installation, operation, maintenance, and repair of equipment used in alternative energy technologies.	
Plumbers, Pipefitters, and Steamfitters (involved in green activities): Assemble, install, alter, and repair tankless hot water heaters, as well as pipelines or pipe systems that carry water, steam, air, or other liquids or gases.	
Recycling Center Operators: Receive, unload, sort, and weigh recycled materials. Operate forklifts. Bale aluminum and cardboard, and make ready for sale. Prepare shipping and monthly reports.	
Remediation Technology Engineers: Design, construct, operate, and write reports on environmental remediation systems such as groundwater treatment, bioremediation, and pesticide/herbicide impacted soils and groundwater.	
Soil and Plant Scientists: Conduct research in breeding, physiology, production, yield, and management of crops and agricultural plants, their growth in soils, and control of pests; or study the chemical, physical, biological, and mineralogical composition of soils as they relate to crop growth.	
Solar Photovoltaic Panel Installers and Technicians: Install rooftop solar panels and electric systems. Perform wiring, mounting, carpentry and handyman tasks, troubleshooting, and customer interaction.	
Solar Thermal Installers and Technicians: Install solar hot water and pool heating systems, including pipes, tanks, solar collectors, and electrical control systems. Troubleshoot problems and make repairs.	
Sustainability Planners: Develop and help implement sustainability recommendations and plans for city, county, or private facilities. Educate public and do outreach. Research, prepare, and present reports (e.g. environmental impact).	
Sustainability Program Coordinators/Managers: Responsible for the development and implementation of a firm's sustainability strategy and initiatives. Promotes efficient, cost effective technologies and operations of the company with the objective of being environmentally responsible and economically viable.	
Wastewater Technicians and Operators: Operate or control an entire process or system of machines, often through the use of control boards, to transfer or treat water or liquid waste.	
Wind Turbine Technicians: Build and service wind turbines. Use computers and must have an understanding of hydraulics, welding, electricity, algebra and meteorology. Ability to climb 300-ft. high towers.	
Other Green Job Title not listed above (please describe):	
Other Green Job Title not listed above (please describe):	
Other Green Job Title not listed above (please describe):	

12. Please identify any occupations declining due to implementation of green practices.

Whom may we contact to learn more about green jobs, training requirements, and skill sets?

Name _____ Telephone _____ Email _____

For more information about the Green Economy, go to "Understanding the Green Economy" at <http://www.labormarketinfo.edd.ca.gov/>

Thank you for taking the time to respond!