

## Digest of Green Reports and Studies

<b>Title</b>	Measurement and Analysis of Employment in the Green Economy
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<b>URL</b>	<a href="http://www.workforceinfocouncil.org/Documents/WICGreenJobsStudyGroupReport-2009-10-01t.pdf">http://www.workforceinfocouncil.org/Documents/WICGreenJobsStudyGroupReport-2009-10-01t.pdf</a>
<b>Summary</b>	The purpose of this report is to “provide information to the Workforce Information Council, Labor Market Information units, and other interested parties on working definitions and methods to estimate and analyze green job employment.” Many studies were reviewed for this report but the main focus of the report was the four state surveys of green jobs in Washington, Michigan, Oregon, and California and two analytical reviews from Connecticut and New York. The report discusses lessons learned on conducting a green jobs survey such as: survey planning, response modes, instrument design, testing the survey instrument, sampling, follow-up procedures, data capture and editing, estimation, and data analysis and dissemination.
<b>Key Findings</b>	<p>The report discusses “variation among the studies including:</p> <ul style="list-style-type: none"> <li>• Assumptions, concepts, and definitions that address varying interests and purposes,</li> <li>• Specific objectives and goals of the studies,</li> <li>• Definitions of green jobs and green economic activity categories, and</li> <li>• Methodologies to survey and/or analyze green-related employment.”</li> </ul> <p>Participants at the Green Jobs Study Group work session indicated “there is:</p> <ul style="list-style-type: none"> <li>• A need for a national survey that establishes a standard set of definitions and methodologies;</li> <li>• A need for flexibility within a state to modify definitions of green jobs; and</li> <li>• Keen interest that data be produced for the state and sub-state levels, but recognition of the limits of any initial national surveys. The planned BLS industry initiative, if funded, may generate considerable geographic detail, as it will be coded to the universe of QCEW establishments in selected sectors. However, an occupational survey would be sample-based and not large enough to present very much geographic detail.”</li> </ul>
<b>Recommendations</b>	<p>The report suggests “goals to:</p> <ol style="list-style-type: none"> <li>1. Share information and methods</li> <li>2. Establish a process to identify the technical assistance needs of states and subsequently provide technical assistance on those needs</li> <li>3. Continue work on definitions, concepts, and technical issues to encourage convergence of definitions to facilitate the sharing of methods and comparable results among states”</li> </ol>
<b>Definition of “Green”</b>	<p>“A green job is one in which the <b>work is essential</b> to products or services that improve energy efficiency, expand the use of renewable energy, or support environmental sustainability. The job involves work in any of these green economic activity categories:</p> <ul style="list-style-type: none"> <li>• Renewable Energy and Alternative Fuels</li> <li>• Energy Efficiency and Conservation</li> <li>• Pollution, Waste, and Greenhouse Gas (GHG) Management, Prevention, and Reduction</li> <li>• Environmental Cleanup &amp; Remediation &amp; Waste Clean-up &amp; Mitigation</li> <li>• Sustainable Agriculture and Natural Resource Conservation</li> <li>• Education, Regulation, Compliance, Public Awareness, and Training and Energy Trading”</li> </ul>

<b>Methodology</b>	Four state surveys of green jobs in Washington, Michigan, Oregon, and California and two analytical reviews from Connecticut and New York
<b>Data Sources Cited</b>	pp 52-53
<b>Report Geography</b>	Washington, Michigan, Oregon, California, Connecticut and New York
<b>Green Occupations Cited</b>	Natural Sciences Managers, Agricultural Engineers, Environmental Engineers, Nuclear Engineers, Environmental Engineering Technician, Soil & Plant Scientists, Zoologists & Wildlife Biologists, Conservation Scientists, Foresters, Environmental Scientists & Specialists, Geoscientists (Except Hydrologists & Geographers), Hydrologists, Geographers, Nuclear Technicians, Environmental Science & Protection Tech (Including Health), Forest & Conservation Technicians, Forestry & Conservation Science Teachers (postsecondary), Environmental Science Teachers (postsecondary), Geography Teachers (postsecondary), Forest Fire Inspectors & Prevention Specialists, Forest & Conservation Workers, Nuclear Power Reactor Operators , Power Distributors & Dispatchers, Power Plant Operators, Water & Liquid Waste Treat. Plant & System Operations, Civil Engineers, Landscaping and Grounds keeping, Construction Managers, Business Operations Specialists, Engineering Managers, Construction Laborers, Electricians, Mechanical Engineers, Plumbers, Pipefitters & Steamfitters, Farm workers and Laborers, Crop, Nursery, & Greenhouse, Electricians, Carpenters, Agricultural Workers (All Other), Heating, Air Conditioning, Refrigerator Mechanics & Installers, Civil Engineers, Architects (except Landscape & Naval), Mechanical Engineers, Glaziers, Roofers, Production Workers (all other), Refuse & Recyclable Material Collectors, Truck Drivers (Heavy & Tractor-Trailer), First-line Supervisors/Managers of Construction Trades & Extraction Workers, Insulation Workers (Floor, Ceiling, & Wall), Graders & Sorters (Agricultural Products), Electrical Engineers, Hazardous Materials Removal Workers, Environmental Scientists & Specialists (Including Health), Sheet Metal Workers, Managers (All other), Laborers & Freight, Stock, and Material Movers (by hand)
<b>Green Industries Cited</b>	Management, Scientific, & Technical Consulting Services, Pharmaceutical & Medicine Manufacturing, Architectural, Engineering, & Related Services, Waste Treatment & Disposal, Electrical Power Generation, Transportation, & Distribution, Water, Sewage, and Other Systems, Forestry & Logging, Installation, Wind Turbine Manufacturing, and Installation, Weatherization & Energy Service. Transportation Equipment Manufacturing (NAICS 336)
<b>Keywords</b>	Green Job Employment, Survey Planning, Survey Design, Survey Comparison, Response Modes, Instrument Design, Testing the Survey Instrument, Sampling, Follow-up Procedures, Data Capture and Editing, Estimation, and Data Analysis, Increase Energy Efficiency, Generate, Store, or Adopt Renewable Energy , Prevent or Reduce Pollution and GHG Emissions , Environmentally Friendly / Environmental Protection, Agriculture and Natural Resource Conservation, Water conservation and quality, Sustainability, Recycling Existing Materials, Clean Transportation and Fuels, Clean Energy / Clean Technology, Mitigate or Clean Up Pollution, Natural / Sustainable Product Manufacturing, Education, Compliance, & Awareness, Waste Management, Reduce Fossil Fuels, Organic Products, Green Buildings, Fair Trade, Holistic Health, Peace and Justice, & Social Conscience, Energy Independence, & Energy Security
<b>Legislation Cited</b>	N/A
<b>Bibliography (Y/N)</b>	Y
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