## Digest of Green Reports and Studies

Title	Northern California Regional Competitiveness Network Renewable Energy and Energy
	Efficiency Report
Author	None listed
Organization	Labor Market Information Division (LMID), Northern California Regional Competitiveness – Northern CA WIRED
Author Contact	None
Publication Type	Report – Results from Case Study
Publication Date	January 2009
# of Pages	30 pp
URL	http://nortec.org/cb/wired_events.html
Summary	This report was prepared by the California Labor Market Information Division (LMID) for the Northern California Regional Competitiveness Network (NCRCN) in January 2009. The report presents information on the relationship between renewable energy and the utilities industry, and between the energy efficiency and the construction industry. It also shows where specific kinds of energy are available and where they are prominently used within California. The report expresses that Northern California has vast opportunities to expand in the green sector.
Key Findings	<ul> <li>Northern California has an abundance of the resources necessary for obtaining and sustaining renewable energy; "waste from agriculture and forest products for biomass plants, sustained sunshine for solar panels, sufficient wind speed for wind turbines, water flow in rivers and streams for hydroelectric power, and geothermal resources" all can be used as a green alternative.</li> <li>The highest power being created by renewable energy in the region is "coming from large hydroelectric facilities with an online capacity of nearly 1,600 MW and an additional 381 MW from small hydroelectric plants.</li> <li>"Biomass power generation facilities within the region (Northern California) produce 334MW of power. Geothermal power generation facilities in the region produce 293.6 MW of electricity."</li> <li>The Northern California region has solar power available for powering facilities within the area. Direct-use geothermal and biogas projects also help to "reduce dependency on fossil fuel-based energy."</li> <li>The amount of jobs in the renewable energy sector that will be created in Northern California is dependent "capital investments to build new or expand existing power generation sites and on the ability of consumers (commercial and residential) to purchase smaller scale renewable energy systems."</li> </ul>
Recommendations	<ul> <li>"The focus on energy efficiency, including retrofit of existing buildings, could help to revitalize the slumping Construction industry."</li> </ul>
Definition of "Green"	"Green or clean is any activity that performs at least one of the following:1)generating or storing renewable energy, 2)recycling existing materials, 3)energy-efficient product manufacturing, distribution, construction, and maintenance, 4)education, compliance, and awareness, 5)natural and sustainable product manufacturing."
Methodology	Literature Research, Survey
Data Sources Cited	California Economic Strategy Panel by Collaborative Economics, California Employment Development Department, US bureau of Reclamation, California Department of Water Resources, U.S. Department of Labor Employment and Training Administration (ETA), US Bureau of Labor Statistics
Report Geography	Northern California
Green Occupations	Agricultural and Forestry Supervisors
Cited	Agricultural Inspectors
	Agricultural Workers
	Air Quality Specialist
	Air resources engineers
	Air-quality auditors
	Architects
	Architectural & Civil Drafters
	Attorneys     Attorneys
	Attorneys for green regulations
	Battery Engineer
	Bicycle repair
	Biofuel engineer

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	Biomass collector
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•	Carbon emission specialist
•	Carbon sequestration geologist
•	Carpenter Helpers
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	additional small scale renewable technologies such as small wind, solar thermal,
	biomass and anaerobic digestion systems
•	Chemical Engineers
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•	Civil Engineers
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	Computer Software Engineers, Applications
•	<ul> <li>Computer Software Engineers, Systems Software</li> </ul>
•	<ul> <li>Computer-Controlled Machine Tool Operators; metal &amp; plastic</li> </ul>
•	Concrete Machine Operators
•	Construction Equipment Operators
•	Construction Laborers
•	<ul> <li>Construction Managers (Large and Small Operations)</li> </ul>
•	<ul> <li>Construction Workers in large-scale, gridconnected wind energy projects</li> </ul>
•	Crane operators
•	Customer service representatives
•	• Cutting, punching, & press machine setters, operators & tenders; metals & plastic
•	Diesel retrofit installer
•	Dispatchers
•	Electric Power Utility Workers
•	Electrical & Electronics Repairers
•	Electrical Engineers
•	Electrical Equipment Assemblers
•	Electricians
•	Electronics Engineers
	Energy Analyst
•	Energy Auditors
	Engine Assemblers
•	Engineering Managers
	Entrepreneurs
	Environmental Auditor/Regulators
	Environmental Consultant
•	Environmental Engineers
	Environmental Planner
	Equipment Assemblers
•	Executive Secretaries
•	Fabricators
	Farm Product Purchasers
	Farm worker
	First-Line Production Supervisors
	<ul> <li>First-Line Sup/Mgrs of Construction Trades and Extraction Workers</li> </ul>
	First-Line Supervisors/Managers of Mechanics, Installers, and Repairers
	First-Line Supervisors/Managers of Production and Operating Worker
	Food production using organic and/or sustainably-grown agricultural products
	• Forester

- Europhice making from environmentally contified and recycled wood
Furniture making from environmentally certified and recycled wood
General & Operations Managers
Geologists/Hydrogeologists
Glaziers
Green (sustainable) landscaping
Green building architect
Green plumber
Green waste composting on a large scale
Green wedding planners
<ul> <li>Hauling and reuse of construction and demolition materials and debris (C&amp;D)</li> </ul>
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<ul> <li>Hazardous materials removal workers</li> </ul>
Hazardous Waste Specialists
<ul> <li>Heating, air conditioning &amp; refrigeration mechanics &amp; installers</li> </ul>
Heating/Air Conditioning Installers
Helpers-Electricians
Human/Ecological Health Risk Assessors
HVAC technician
Hybrid powertrain technician
Industrial Machinery Mechanics
Industrial Production
<ul> <li>Inspectors, Testers, Sorters, Samplers, and Weighers</li> </ul>
<ul> <li>Installers, Service &amp; Repair Technicians (Operations &amp; Maintenance)</li> </ul>
<ul> <li>Insulation workers; floor, ceiling and wall</li> </ul>
Iron and Steel Workers
<ul> <li>Laborers &amp; freight, stock &amp; material movers; hand</li> </ul>
<ul> <li>Landfill gas system operator</li> </ul>
Lead Designers
Lead Installer or Technician
Line Installers and Repairers
Local Sustainability Planners
Locomotive Engineers
Machinists
Maintenance – 49-0000 Installation, Maintenance, and Repair Occupations
<ul> <li>Maintenance and Repair Workers, General</li> </ul>
Management Analysts
Managers
Material Movers, Hand
Measurement and Verification Technician
Metal Fabricators
Metal Fabricators, Electrical
Millwrights
<ul> <li>Mixing &amp; blending machine setters, operators &amp; tenders</li> </ul>
<ul> <li>Non-toxic household cleaning in residential and commercial buildings</li> </ul>
Office Clerks, General
Operating Engineers
Operation and maintenance jobs at large scale, grid-connected wind energy projects
<ul> <li>Operations – 51-8000 Plant and System Operators</li> </ul>
<ul> <li>Parks and open space maintenance and expansion</li> </ul>
Photovoltaic Installation
Photovoltaic Specialists
Pipefitters
<ul> <li>Plumbers</li> </ul>
Plumbers, Pipefitters, and Steamfitters
Policy & Program Managers
Policy Analyst
Pollution Specialists
Power Grid Engineer
<ul> <li>Printing with non-toxic inks and dyes and recycled papers</li> </ul>
Production, Planning & Expediting clerks
Project Managers

Recking Center Operators     Recycling Center Operators     Retuse & Recyclable Collectors     Retuse & Recyclable Collectors     Resource Conservation/Efficiency Manager     Roofors     Resource Conservation/Efficiency Manager     Roofors     Sales Representatives/Marketers/Estimator     Sales Representatives/Marketers/Estimators     Secretaries, General     Separating, filtering, clarifying, precipitating & still machine setters, operators & tenders     Sheet Metal workers     Solar Cengry Engineer/Designers     Solar Design & Installation     Solar Energy Foreman     Solar Energy Foreman     Solar Energy Engineer/Designers     Solar Installation Manager or Project Foreman     Solar Installation Workers     Solar Installation Preciors     Solar System Installation     Solar Installation     Solar Installation Preciors     Solar System Installation     Solar System Installation     Solar System Installation     Solar Installatin		
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