

Digest of Green Reports and Studies

Title	Jobs in LA's Green Technology Sector
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Summary	Los Angeles has unrealized opportunities to become a growing provider of "green" goods and services, and through this growth to create decent jobs that benefit all residents of the city. To realize these opportunities Los Angeles has to make up lost ground because compared to the U.S. economy, it has a below-average share of jobs in every significant green technology industry. This report contains analysis of industry and occupational data, recommending how Los Angeles promotes the growth of its green economy.
Key Findings	Los Angeles' green technology industries were identified and analyzed to identify promising targets for growth and job creation. Three filtering criteria were used to identify industries with: <ul style="list-style-type: none"> • 500 or more jobs in the City of Los Angeles • Stable or growing employment • Average monthly wages in 2002 of \$2,500 or more Seventeen promising green technology industries in the city that meet these criteria are listed. These initial target industries represent the most promising commercial components of L.A.'s green technology sector and are recommended as a starting point for a public economic development strategy. The criteria used to identify these industries should continue to be used flexibly and to be informed both by hard data and specific opportunities in crafting and implementing a broad, multi-targeted approach to creating green technology jobs. This broad array of industry targets avoids a made-or-break strategy that hinges on the success or failure of a single target, and also takes advantage of many strengths in the region's large and diversified economy.
Recommendations	Eight recommendations for the City of Los Angeles, put forth in March 2006: <ol style="list-style-type: none"> 1. Adopt goals for green technology in the City of Los Angeles that create new career-paths jobs for City residents and that ensure equitable access to job opportunities for all residents. 2. Build connections between Los Angeles' green technology industries and markets for their goods and services: 3. Promote the "greening" of Los Angeles, including energy and resource conservation, sustainable transportation, green architecture, recycling, waste reduction, and pollution prevention. 4. Identify how Los Angeles' job training, economic development and business assistance programs can be used to support the growth of green technology businesses. 5. Ensure that workers of all ethnicities have fair opportunities to compete for higher paying green technology occupations that require specialized skills. 6. Investigate opportunities for economic growth in industries that provide important green technology inputs but are under-represented in the local economy. 7. Strengthen links between L.A.'s research universities and green technology industries to increase technology transfer, consulting assistance, and business start-ups. 8. Strengthen Los Angeles' capacity to support growth of green technology businesses by investigating critical unanswered questions about this sector of the economy.
Definition of "Green"	Green goods and services provide renewable or less-polluting sources of energy, as well as technologies that help reduce pollutants from the existing economic base, transportation infrastructure, and residential communities.
Methodology	<ul style="list-style-type: none"> • Analyze existing and newly compiled lists of 'green' businesses in the City of Los Angeles and the balance of Los Angeles County • Assign 6-digit NAICS codes to these businesses if not already known, look at employment trends in these industries, and calculate the share of each that is green. • Create location quotients for LA County compared to the state and the nation. • Calculate downstream multiplier effects for industries using IMPLAN input-output model. • Examine industry employment size, average monthly wages and job change over time.

Data Sources Cited	<ul style="list-style-type: none"> • City of Los Angeles. 2005. LA Economy Project http://www.laeconomyproject.com/ • U.S. Census Bureau, EPCD, 2003 County Business Patterns. • U.S. Department of Commerce. "County Business Patterns 2002: California". Washington, DC: U.S. Government Printing office • IMPLAN Input/Output Model for Los Angeles County, 2001-02 (Minnesota IMPLAN Group) • Quarterly Census of Employment and Wages (ES-202), 2002. • CA Employment Development Dept. "L.A. Co. SOC Title & Wage Data, 2005." • CA Employment Development Dept.-LMID. "2005 OES Employment & Wages by Occupation;" • O*Net Occupational Information Network, Version 5.5 • 2000 Census 5% PUMS Hispanic White Asian Black Other for the City of Los Angeles. • Data analyzed for initial industry targets is drawn from the
Report Geography	City of Los Angeles, Los Angeles County
Green Occupations Cited	<ul style="list-style-type: none"> • Construction Laborers • Refuse & Recyclable Collectors • Helpers-Electricians • Carpenters • Material Movers, Hand • Plumbers & Pipefitters • Maintenance. & Repair Workers • 1st-Line Supervisors Construction • Electricians • Customer Service. Reps. • Office Clerks, General • Sheet Metal Workers • Executive Secretaries • Architectural & Civil Drafters • Bookkeepers & Accountants • Secretaries, General • Construction Managers • General & Operations Managers • Architects • Civil Engineers • Waste Treatment Operators • Engineering Managers • Software Engineers • Electronics Engineers
Green Industries Cited	<p>UTILITIES</p> <ul style="list-style-type: none"> • Water & Sewage Systems <p>CONSTRUCTION</p> <ul style="list-style-type: none"> • Residential Building Construction • Building Equipment Contractors • Building Finishing Contractors <p>NONDURABLE MANUFACTURING</p> <ul style="list-style-type: none"> • Petroleum Prod Recycling • Cleaning Compound Mfg <p>DURABLE MANUFACTURING</p> <ul style="list-style-type: none"> • HVAC Equipment Mfg • Other Electrical Equipment Mfg <p>WHOLESALE</p> <ul style="list-style-type: none"> • Misc. Durable Goods Wholesale • Wholesale Electronics <p>PROFESSIONAL SERVICES</p> <ul style="list-style-type: none"> • Legal Services • Architecture & Engineering • Computer System Design • Scientific & Tech Consulting • Scientific Research & Development <p>WASTE MANAGEMENT</p> <ul style="list-style-type: none"> • Waste Collection • Remediation & Waste Mgmt

Keywords	Green Goods Services; Renewable Energy Sources; Construction Technology; Reduce Pollutants; Economic Base; Transportation Infrastructure; Residential Business
Legislation Cited	n/a
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