

Cleantech Reference Guide

Orange County and Metro Orlando, Florida USA

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- [Job Growth in Cleantech](#)
- [Green Collar Jobs](#)
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- [Metro Orlando Programs/Organizations Supporting Cleantech](#)
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This Cleantech Reference Guide is intended as a starting place for the cleantech economic development initiatives of Orange County, Florida Mayor Richard T. Crotty—a Cleantech Economic Benchmark Study and a Cleantech Symposium Series. It contains approximately 800 links to cleantech-related websites organized according to topic, examples of cleantech companies in Orange County and Metro Orlando, and a list of organizations supporting cleantech economic development.

The Cleantech Economic Development Benchmark Study has the working title: “Metro Orlando Cleantech: Assets, Capabilities, Presence, and Potential.” It will be a primer for the further development of cleantech in Orange County and Metro Orlando—a common body of knowledge for local economic development practitioners and public officials, and a startup guide for a local cleantech economic development action plan.

The Cleantech Symposium Series will convene interested parties to better understand the cleantech community and to foster its growth. The Study and Symposium Series will be mutually supportive. For example, symposiums initially will help to identify local cleantech companies and organizations to be included in the study. Later on, policies and programs supporting cleantech in other communities, identified in the Cleantech Study, will be presented and discussed in one of the symposiums to help determine what actions should be taken locally to support the growth of our cleantech companies.

Mayor Crotty Launches Cleantech Economic Development Initiatives
<http://www.orangecountyfl.net/cms/orangemedia/countynews/stories/102308.htm>

What is Cleantech? / Industry Makeup

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Cleantech is the new rallying cry of economic development. Cleantech means more than going green. Going green means preserving, restoring, and improving our natural environment. Cleantech means doing this in a manner that makes good business sense. Clean is more than green.

The generally accepted description and definition of cleantech is that developed by the Cleantech Network, LLC, a global organization of 8,000 investors, 6,000 companies, and 3,500 professional service organizations that specialize in cleantech. According to the Cleantech Network, cleantech is new technology and related business models offering competitive returns for investors and customers while providing solutions to global challenges.

The concept embraces a diverse range of products, services, and processes across a range of industries that are designed to 1) provide superior performance at lower costs, and 2) greatly reduce or eliminate negative ecological impact and improve the productive and responsible use of natural resources. Examples of clean technologies include solar, biofuels, electric cars, tidal power, waste-to-energy conversions, green roofs, LED lighting, and technologies that address the shortage of clean water.

A similar definition is offered by Ernst & Young, one of the world's largest professional services companies: "Clean technology encompasses a diverse range of innovative products and services that optimize the use of natural resources or reduce the negative environmental impact of their use while creating value by lowering costs, improving efficiency, or providing superior performance."

Cleantech = Green + Innovation + Value Added

Considering these definitions of cleantech, a definition of **cleantech economic development** might be: Attracting, creating, and growing high value innovative companies that produce the products and provide the services that allow us and the rest of the world to go green.

Cleantech Industry Segments		
Energy Generation Solar Biofuels Hydro/Marine Wind Geothermal	Transportation Vehicles Logistics Structures Fuels	Manufacturing Advanced Packaging Monitoring & Control Smart Production
Energy Storage Fuel Cells Advanced Batteries Hybrid Systems	Water & Wastewater Water Treatment Water Conservation Wastewater Treatment	Agriculture Natural Pesticides Land Management Acquaculture
Energy Infrastructure Infrastructure Management Transmission	Air & Environment Cleanup/Safety Emission Control Monitoring/Compliance Smart Production	Recycling & Waste Recycling Waste Treatment
Energy Efficiency Lighting Buildings Glass	Materials Nano Bio Chemical	Source: www.cleantech.com

Cleantech Defined

<http://cleantechnetwork.com/index.cfm?pageSRC=CleanTechDefined>

What is cleantech?

<http://cleantechlawandbusiness.com/cleanbeta/index.php/cleantechdefinitions/>

Partnership: Clean Technology Global Trends and Insights Report 2007 (Ernst & Young) – See Page 2 for definition of cleantech.

[http://www.ey.com/Global/assets.nsf/International/SGM_Cleantech-InsightsReport2007/\\$file/SGM_Cleantech-InsightsReport2007.pdf](http://www.ey.com/Global/assets.nsf/International/SGM_Cleantech-InsightsReport2007/$file/SGM_Cleantech-InsightsReport2007.pdf)

The win-win ways of Cleantech business

<http://www.cbsobserver.dk/content/win-win-ways-cleantech-business>

What is Cleantech and Why it Matters

<http://sramanamitra.com/2006/10/02/what-is-clean-tech-and-why-it-matters/>

High Tech Gives Way to Clean Tech

<http://www.iht.com/articles/2007/03/13/business/valley.php>

Eight cleantech developments to watch for in 2008

<http://media.cleantech.com/2219/eight-cleantech-developments-to-watch-for-in-2008>

Venture Capital with a Winning Game Plan: Cleantech Cluster

http://lwlaw.com/test/images/lwlaw/presentations/Cleantech_Fund_14-July-08_Cleantech_Cluster.pdf

Cleantech Scandinavia

<http://www.cleantechscandinavia.com/MoreAbout.html>

Definition of Green

http://weblog.infoworld.com/sustainableit/archives/2008/01/green_products.html

Cleantech Gets Green

<http://seedmagazine.com/news/2006/05/cleantech.php>

Cleantech Coverage by Industry Sector

<http://media.cleantech.com/industries>

EBBF

<http://www.ebbf.org/145.html>

What is cleantech, and how is it applicable to your daily life and job?

<http://upcoming.yahoo.com/event/188805/>

What are cleantech stocks?

<http://www.investopedia.com/ask/answers/07/clean-tech-stocks.asp>

VC Wakes Up to the Cleantech Opportunities

<http://seekingalpha.com/article/61742-vc-wakes-up-to-the-cleantech-opportunity>

VCS Pump \$3B into Cleantech in '07 (breakdown by industry segment)

<http://www.redherring.com/Home/23845>

Emerging technology: Solar dominates clean tech sector

<http://masshightech.bizjournals.com/sanjose/stories/2008/01/07/story1.html>

Solar dominates cleantech sector

<http://www.lightspeedvp.com/News/stories/LSVP01042008c.pdf>

New era in solar arrives with public policy, industry support (Silicon Valley)

<http://orlando.bizjournals.com/sanjose/stories/2007/04/30/focus4.html>

Clean Tech Intro: The Solar Family

<http://cleantechnica.com/2008/07/21/clean-tech-intro-the-solar-family/>

More Solar Heads to Market

<http://media.cleantech.com/2421/dealmakers-continue-to-shine-on-solar>

Funding Heats up for Solar Thermal

<http://media.cleantech.com/2759/funding-heats-up-for-solar-thermal>

Solar PV Still Going Through Growing Pains

<http://media.cleantech.com/2321/solar-still-going-through-growing-pains>

U.S. Solar & wind incentives on the way

<http://media.cleantech.com/2223/scaled-back-u-s-energy-bill-to-become-law>

Startup fever shifts to energy in Silicon Valley

http://www.nytimes.com/2007/03/14/technology/14valley.html?_r=1&hp&oref=slogin

Wind and Wave Energy

http://www.thedailyworld.com/articles/2007/12/14/local_news/01news.txt

The Greening of Batteries (Silicon Valley)

<http://orlando.bizjournals.com/sanjose/stories/2008/03/17/story1.html>

5 Promising Cleantech Startups

<http://www.redherring.com/Home/19684>

Cleantech Issue: Corporate Knights (The Canadian Magazine for Responsible Business) – see Page 20

<http://www.corporateknights.ca/downloads/CK21.pdf>

Cleantech BioFuels, Greentech America sign research agreement

<http://orlando.bizjournals.com/stlouis/stories/2008/04/28/daily29.html>

Nanotechnology

<http://www.allbusiness.com/finance/equity-funding-private-equity-venture-capital/3878456-1.html>

Eight Cleantech Developments to Watch in 2008

<http://media.cleantech.com/2219/eight-cleantech-developments-to-watch-for-in-2008>

2008 Cleantech Predictions: Solar

<http://lsvp.wordpress.com/2007/12/07/2008-cleantech-predictions-solar/>

Head Starts for Clean Tech Startups

http://www.businessweek.com/bwdaily/dnflash/content/mar2007/db20070319_823688.htm

Clean Technology Survey Reveals Most Profitable Sectors

http://findarticles.com/p/articles/mi_pwwi/is_200705/ai_n19057931/pg_1

Solar Thermal and Photovoltaic Collector Manufacturing Activities 2006

<http://tonto.eia.doe.gov/FTP/ROOT/renewables/017406.pdf>

Who Manufactured Photovoltaic Modules Globally in 2004
[http://www.prometheusinstitute.org/admin/researchnotes/uploads/PV2-0401.01 -
Global_PV_Module_manufacturers-.pdf](http://www.prometheusinstitute.org/admin/researchnotes/uploads/PV2-0401.01_-_Global_PV_Module_manufacturers-.pdf)
U.S. Solar Industry Year in review: 2006
http://www.prometheus.org/system/files/Year_in_Solar_2006.pdf

Scientists leave biotech for cleantech
<http://www.fiercebiotech.com/story/scientists-leave-biotech-clean-tech/2008-10-07>

Why Cleantech is Taking Biotech's Shine — It's Simple: Alternative Energy is Where the Venture Capital is These Days. Plus, the Skill Sets are Similar, and Researchers are Making the Jump
<http://www.wnbc.com/money/17641117/detail.html>

"Industry-Changing" Solar Module Manufacturers

IBM, Prism Solar, First Solar, Heliovolta, Applied Materials, and Sowlar, Inc. are examples of the many companies touting "industry-changing" solar technologies.

IBM Adds thin-film process to burgeoning cleantech business
<http://venturebeat.com/2008/06/16/ibm-adds-thin-film-process-to-burgeoning-cleantech-business/>

Prism Solar Technologies receives "Achievement Award"
<http://www.renewableenergyworld.com/rea/partner/story?id=53047&src=rss>

Prism Solar Technologies Receives First 60 Megawatt Production Line
<http://www.renewableenergyworld.com/rea/partner/story?id=52790&cid=7416>

Prism Solar Technologies Wins "Most Promising Technology Award" at Cleantech Network Investment Forum
<http://www.renewableenergyworld.com/rea/partner/story?id=50416&cid=7416>

By enabling clean, renewable electricity at lower costs, First Solar is providing a sustainable alternative to conventional energy sources
http://www.firstsolar.com/company_overview.php

First Solar to triple production capacity, add 200 jobs
http://findarticles.com/p/articles/mi_qa5333/is_200504/ai_n21371758

Heliovolta: The 21st Century Industrial Revolution is Born
<http://www.heliovolta.net/>

Sowlar: The company's objective is to provide the world's most efficient and lowest cost per watt solar modules.
<http://www.sowlar.com>

Applied Materials (Video)
http://www.appliedmaterials.com/products/solar_3.html

Best Solar to Invest \$2.5 billion for 1GW thin-film capacity in 2010
[http://www.pv-
tech.org/thin_film/article/best_solar_to_invest_25_billion_for_1gw_thin_film_capacity_in_2010](http://www.pv-tech.org/thin_film/article/best_solar_to_invest_25_billion_for_1gw_thin_film_capacity_in_2010)

Schott Solar to Build Production Facility in Albuquerque, New Mexico
http://www.us.schott.com/newsfiles/20080114054831_ABQFinal.pdf

Biggest solar thermal plant in 16 years connects to Nevada grid
<http://media.cleantech.com/1285/biggest-solar-thermal-plant-in-16-year>

Investment and Growth in Cleantech / Cleantech Index

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According to the Cleantech Group, venture investments in cleantech for the third quarter of 2008 for North America, Europe, China, and India totaled \$2.6 billion across 158 companies, an all-time record quarter. The previous record quarter was the second quarter for 2008, which saw \$2.2 billion in cleantech venture investments. The third quarter total is a 37% increase over the same period a year ago. Cleantech venture investments through the third quarter of 2008 not total \$6.6 billion, exceeding the full-year 2007 total of \$6.0 billion.

<http://cleantech.com/news/3607/third-quarter-investment-record-cleantech-outlook>

<http://cleantech.com/news/3606/2q08-cleantech-investment-review>

<http://cleantech.com/news/3069/cleantech-investments-hit-a-record-high>

On January 17, 2008, the Cleantech Group, LLC, founders of the Cleantech investment category, reported the sixth consecutive year of sustained growth for cleantech venture investments—a total of \$5.17 billion for North America and Europe, up from \$3.6 billion in 2006 and only \$714 million in 2001. See Resources & Information/Press Releases on www.cleantech.com. Total investment in “clean” technologies hit \$74 billion 2007.

- North American cleantech venture investing grew by 38% in 2007, from \$2.87 billion invested in 2006 to \$3.95 billion invested in 2007.
- The top five cleantech investment categories in 2007 were energy generation, energy storage, transportation, energy efficiency, and recycling and waste.
- According to Nicholas Parker, cofounder and Chairman of the Cleantech Group: “Despite strong headwinds building in the global economy and tightening credit markets, the medium and long-term propositions for cleantech opportunities sustained the sixth consecutive year with unexpectedly robust growth....High carbon-based energy prices, global resource competition, and increasingly favorable policy frameworks provide stronger than ever fundamental drivers for cleantech investors, and we foresee continued growth over 2008 as the cleantech market cycle moves from early adoption to a mainstream driver of wealth and job creation.”

Total investment in clean technologies in 2007, including R&D, totaled approximately \$150 billion.

http://www.eetasia.com/ART_8800544098_765245_NT_cbb3b0fe.HTM

The American Stock Exchange in 2006 began publishing the Cleantech Index (CTIUS) to track the surging global demand for clean technology (cleantech) products and services. It is comprised of 47 companies that are leaders in cleantech innovation and commercialization across a broad range of industry sectors. The Cleantech Index rose 42% in calendar 2007, and for the past year performed well above the S&P 500 and NASDAQ Composite.

The Biggest Economic Opportunity of This Century

<http://www.fool.com/investing/high-growth/2007/06/30/the-biggest-economic-opportunity-of-this-century.aspx>

Rising Energy Costs, Efficiency Will Drive Cleantech Activity, Ernst & Young Survey Shows

http://www.ey.com/global/Content.nsf/US/Media_-_Release_-_11-15-07DC

Cleantech Funding at Record \$2.6B in Q3 2008

<http://orlando.bizjournals.com/sanjose/stories/2008/09/29/daily46.html?t=printable>

Cleantech IPOs Brighten Dark Public Markets

<http://orlando.bizjournals.com/sanfrancisco/stories/2008/07/14/story7.html?t=printable>

KPMG: Cleantech investments to rise in 2009

<http://orlando.bizjournals.com/eastbay/stories/2008/09/22/daily84.html>

Clean tech investment to rise in 2009, survey finds

<http://orlando.bizjournals.com/austin/stories/2008/09/22/daily49.html>

Ernst & Young says cleantech investment up sharply despite financial crisis

http://www.eetasia.com/ART_8800544098_765245_NT_cbb3b0fe.HTM

U.S. cleantech investment climbs 41% in 2nd quarter of 2008 to nearly U.S \$1 billion, the highest quarter on record

http://www.ey.com/global/content.nsf/US/Media_-_Release_-_04-08-08DC

Accelerated business response to climate change drives cleantech investment

http://www.ey.com/global/content.nsf/International/Media_-_Press_Release_-_Accelerated_business_response_to_climate_change_drives_cleantech_investment

What Credit Crunch? Money Flows into Cleantech Aplenty

<http://studio-5.financialcontent.com/mng-denver?Account=denverpost&GUID=6885842&Page=MediaViewer&ChannelID=6469>

Crunch fails to crush cleantech investment

<http://www.businessgreen.com/business-green/news/2228591/cleantech-investment-stays>

How badly could a recession hurt cleantech?

<http://lightbulbs.org/how-badly-could-a-recession-hurt-cleantech>

Bailout Bill includes \$100B in energy, other tax breaks

<http://orlando.bizjournals.com/southflorida/stories/2008/09/29/daily31.html>

Summary of the Cleantech Provisions of the 2008 Bailout Bill

<http://www.jdsupra.com/post/documentViewer.aspx?fid=38669495-14b1-47f1-af0e-7e27e44bbfdd>

Bailout plan bails out clean-energy sector

http://news.cnet.com/8301-11128_3-10057936-54.html

Capital of Opportunity: Fundraising lags, but plenty of opportunity exists (Silicon Valley & San Jose)

<http://orlando.bizjournals.com/sanjose/stories/2008/08/04/focus1.html>

U.S. Cleantech Investment Bounces back in Second Quarter (2008)

<http://www.businessgreen.com/business-green/news/2226246/clean-tech-investment-bounces>

What the Current Turmoil Means for Cleantech

<http://www.ecogeek.org/content/blogcategory/24/73/>

Nation's Credit Woes Won't Rattle Investors (San Fran)

<http://orlando.bizjournals.com/sanfrancisco/stories/2008/01/07/story4.html>

Cleantech Bubble Talk is Red Herring

http://news.cnet.com/8301-11128_3-10051792-54.html

Cleantech: Current Status and Worldwide Outlook

<http://www.plusdetudes.com/product.php?id=77393>

The Future Ain't What it Used to Be

<http://www.altassets.com/casefor/sectors/2008/nz12946.php>

5th Annual Cleantech Investor Summit

<http://www.cleantechsummit.com/>

Cleantech Fund Draws \$62.5 M

<http://orlando.bizjournals.com/twincities/stories/2007/03/26/story4.html>

Cash pours into cleantech

<http://orlando.bizjournals.com/sanfrancisco/stories/2007/02/19/story1.html>

Cleantech — the next big thing for investors?

http://www.ogilvyrenault.com/files/Cleantech_Survey_Results.pdf

The Next Big Thing in Cleantech Venturing

<http://www.cleantechblog.com/2008/06/next-big-thing-in-cleantech-venturing.html>

Clean tech investments pull in 10 percent of US venture capital

<http://arstechnica.com/news.ars/post/20070606-clean-tech-investments-pull-in-10-percent-of-us-venture-capital.html>

DOD awarding contracts to help clean up its act

<http://orlando.bizjournals.com/washington/stories/2007/02/19/story11.html>

Seeding a cleantech cluster – To lead or to follow?

<http://orlando.bizjournals.com/boston/stories/2007/02/12/editorial2.html>

Gov proposes \$95M to aid in research

<http://orlando.bizjournals.com/sanfrancisco/stories/2006/12/25/daily18.html>

Clean Tech companies getting attention of venture funds (Sacramento)

<http://orlando.bizjournals.com/sacramento/stories/2006/08/14/focus5.html>

Out-of-State Venture Investment for Cleantech Companies Soar (Puget Sound Bus Journal)

<http://orlando.bizjournals.com/seattle/stories/2008/02/18/focus9.html>

Arizona Firms Search for Funding at Canadian Forum

<http://orlando.bizjournals.com/phoenix/stories/2007/11/19/story4.html>

Private equity braves market (San Francisco)

<http://orlando.bizjournals.com/sanfrancisco/stories/2008/05/26/story3.html>

Clean Wave Ventures targets rising tide of green technology (Cincinnati)

<http://orlando.bizjournals.com/cincinnati/stories/2008/05/19/story15.html>

\$200M Fund to Link Region (San Francisco) to China

<http://orlando.bizjournals.com/sanfrancisco/stories/2008/05/19/story3.html>

Lightspeed closes \$800M Venture Fund (Silicon Valley/San Jose)

<http://orlando.bizjournals.com/sanjose/stories/2008/05/12/daily9.html>

Tracking the Future of Green

<http://orlando.bizjournals.com/sanjose/stories/2008/07/28/focus2.html>

Solar company picture brightens with renewed incentives (Renewable Energy Investment Tax Credit 2008)

<http://orlando.bizjournals.com/sanjose/stories/2008/10/13/story10.html>

Clean Edge Cleantech Index

<http://www.cleantechindex.com/e-letter/>

Cleantech Comes of Age: Findings from the Money Tree Report (April 2008, 36 pages)
http://www.pwcmoneytree.com/MTPublic/ns/moneytree/filesource/exhibits/Cleantech%20comes%20of%20age_FINAL.pdf

Top 3 Clean Technology Sectors for 2008
http://www.greenchipstocks.com/aqx_p/3161?gclid=CPSno_yv1pQCFQbJsgod33svIA

Looking to the coming cleantech boom
<http://www.theaustralian.news.com.au/story/0,25197,22701363-21147,00.html>

Cleantech Opportunities & Trends
<http://sustainablog.org/2008/02/29/cleantech-opportunities-and-trends/>

Cleantech Investments in 2008 with Draper Fisher Jurvetson (VIDEO)
<http://revision3.com/gigaom/dfj/>

\$400 M fund will invest in U.S., Europe
<http://orlando.bizjournals.com/atlanta/stories/2008/10/13/story3.html>

California accounts for 45% of venture deals in Q3 as numbers fall
<http://orlando.bizjournals.com/sanjose/stories/2008/10/20/daily5.html>

Hewlett Packard, Intel, and other tech giants target cleantech
<http://orlando.bizjournals.com/sanfrancisco/stories/2008/06/16/story2.html>

Report: New England clean tech economy could bring \$1 billion in investment by 2012
<http://boston.bizjournals.com/boston/stories/2008/06/09/daily40.html>

Private sector pumping hundreds of billions into cleantech
<http://news.mongabay.com/2008/0221-unep.html>

United Nations Environment Programme (UNEP) Year Book 2008: An Overview of Our Changing Environment
http://www.unep.org/geo/yearbook/yb2008/report/UNEP_YearBook2008_Full_EN.pdf

Cleantech Makes its Mark: Clean technology has great potential for profits and the environment
<https://www.amcham-china.org.cn/amcham/upload/wysiwyg/CB2008Feb/Cleantech.pdf>

Cleantech IPOs brighten dark public markets
<http://www.bizjournals.com/sanfrancisco/stories/2008/07/14/story7.html>

Clean-tech firms buck IPO trend
<http://www.bizjournals.com/sacramento/stories/2008/07/14/story14.html>

Book: (updated 2008), The Clean tech Revolution: Discover the Top Trends, technologies, and Companies to Watch, by Ron Pernick and Clint Wilder
<http://www.amazon.com/Clean-Tech-Revolution-Technologies-Companies/dp/0060896248>

Book Review: "The Cleantech Revolution"
http://energypriorities.com/entries/2007/06/the_clean_tech_revolution.php

Excerpt from "The Cleantech Revolution"
http://www.usatoday.com/money/books/2007-07-30-cleanntech-excerpt_N.htm

The Cleantech Revolution (Presentation)
http://www.cleantechnology.com.au/pdf/ctf2007slides/CTF2007_CleanEdge.pdf

Cleantech Venture Capital: How Public Policy Has Stimulated Private Investment
<http://www.e2.org/ext/doc/Cleantech%20Venture%20Capital%20Report%202007%20Exec%20Summary.pdf>
[http://www.sfchamber.com/climatechange/docs/CleantechReport2007\(1-10\).pdf](http://www.sfchamber.com/climatechange/docs/CleantechReport2007(1-10).pdf)

Roundtable: Cleantech Comes of Age (Discussion)
http://www.accessmylibrary.com/coms2/summary_0286-33848010_ITM

Angels flock to cleantech
<http://www.sustainableindustries.com/breakingnews/8073397.html>

Pay Attention to Cleantech, Israel Urged
<http://www.jpost.com/servlet/Satellite?cid=1192380657064&pagename=JPost%2FJPArticle%2FShanghai%2FHowFull>

Hewlett-Packard, Intel and other tech giants target cleantech
<http://www.bizjournals.com/sanfrancisco/stories/2008/06/16/story2.html>

Cleantech Speeding Ahead—But will Oil Prices Push it Even Further
<http://venturebeat.com/2008/05/06/cleantech-speeding-ahead-but-will-oil-prices-push-it-even-faster/>

What Cleantech sectors are the VCs after now?
http://news.cnet.com/8301-11128_3-9981519-54.html?hhTest=1

Solar Investment Surging (Jan 2008)
<http://asiacleantech.wordpress.com/2008/01/16/siemens-to-set-up-wind-energy-centre-in-singapore/>

FORA.tv: The Green Rush-Prospects, Perils, and Opportunities
Full Symposium Video (24 segments)
http://fora.tv/2008/01/29/Green_Rush

Cleantech Shrugs Off Downturn
<http://www.businessgreen.com/business-green/news/2216000/clean-tech-shrugs-downturn>

U.S. Consumers Gung Ho for Cleantech
<http://www.businessgreen.com/business-green/news/2212719/consumers-gung-ho-cleantech>

Cleantech Investment Boom Set to Continue (Feb 2008)
<http://www.businessgreen.com/business-green/news/2210890/report-clean-tech-investment>

The Cleantech Investment Megatrend
<http://www.americanventuremagazine.com/articles/551/>

US cleantech investments increase 18% in Q1 2008
http://www.ey.com/global/Content.nsf/US/Media_-_Release_-_05-06-08DC

Cleantech Investment Keeps on Booming (Europe)
<http://www.accountancyage.com/business-green/news/2200075/clean-tech-investment-keeps>

Investor coalition earmarks \$10 Billion for Cleantech
http://www.eetasia.com/ART_8800505232_480200_NT_39f972e2.HTM

2008 CleanTech Predictions
<http://lsvp.wordpress.com/2007/12/07/2008-cleantech-predictions-solar/>

Clean tech opportunities in 2008: A look ahead
<http://masshightech.bizjournals.com/masshightech/stories/2008/02/18/focus2.html>

(April 2008) Cleantech Group Reports Cleantech investments Up 42% in 1Q08
<http://www.prnewswire.com/cgi-bin/stories.pl?ACCT=104&STORY=/www/story/04-09-2008/0004789305&EDATE=>

Nanotech's Impact on Cleantech Growing Rapidly
http://www.luxresearchinc.com/press/RELEASE_Nanotech_impact_on_cleantech.pdf

Cleantech becomes big business
<http://uk.reuters.com/article/businessNews/idUKN3122314720070804>

Budding clean-tech sector may have best IPO luck
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Ernst & Young

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Next Ernst & Young Cleantech Symposium November 2008

Contact Jules.Miller@ey.com

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Cleantech Hotspots and Clusters

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Austin, San Jose, San Francisco, San Diego, Sacramento, Seattle, and Boston are all places where cleantech is thriving. By looking at what is happening in these cities, it is possible to identify the characteristics and conditions conducive to cleantech economic development. This section concentrates on identifying hotspots and clusters. The next section concentrates on studies, reports, and initiatives associated with these places.

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<http://ktla.trb.com/news/local/green/stv-gl-solarproject,0,5230563.story>

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Austin Ranked #1 in Cleantech Revolution

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Solar Sales Heats Up Bay Area Neighborhoods

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Washington: A Cleantech Capital?

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Boston Area Ranks High for Cleantech

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New England's Cleantech Needs More Experience

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A Strong Clean Energy Cluster—Bolstered by Entrepreneurs from High Tech and Life Sciences—
Could Bring \$1 Billion More to New England by 2012
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Go East Young Man: How Clean Tech Drew Two Venture Insiders from the Bay Area to the bay
State
<http://www.xconomy.com/san-diego/2007/09/05/go-east-young-man-how-clean-tech-drew-two-venture-insiders-from-the-bay-area-to-the-bay-state/>

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Oregon: State's Cleantech investments hit \$16.5 billion
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Solar Firm Seeks \$100M (Portland)
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Oregon's Clean Tech Industry Gets Showcased at InfoTech
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Turning Toronto into a CleanTech Cluster
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Abu Dhabi

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<http://media.cleantech.com/2339/abu-dhabi-the-next-cleantech-hub>

Abu Dhabi rides 'cleantech' wave with \$15B pledge
http://www.eetasia.com/ART_8800505590_765245_NT_8cfb1f93.HTM

India

Next Cleantech Hub: India
<http://www.greentechmedia.com/articles/next-cleantech-hub-india-642.html>

Cleantech Prospects are Getting Stronger (India)
http://www.mitra.biz/press/200705_ethicalinvestor.pdf

Other Places for Cleantech

Pennsylvania Becoming a Center for Clean Technology Investing
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Clean technology Track at InfoTech presented by SAO's Clean Tech Firm
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<http://www.chinabusinessreview.com/public/0707/brent.html>

Lahti Region Cleantech Cluster
<http://www.ebnbudapest2008.net/assets/annukka%20havas.pdf>
http://www.lahtisbp.fi/en/finnish_cleantech_cluster

Cleantech Cluster: Helps Finnish Cleantech companies to establish contacts with international markets
http://www.lahtisbp.fi/en/finnish_cleantech_cluster

US pioneer sets up global HQ in Cambridge cleantech cluster

<http://www.businessweekly.co.uk/2008092432527/cleantech/us-pioneer-sets-up-global-hq-in-cambridge-cleantech-cluster.html>

Shanghai: China's Cleantech Center

<http://www.chinaenvironmentallaw.com/2008/09/27/shanghai-chinas-cleantech-center/>

Cleantech Studies, Reports, and Initiatives

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A number communities and states have already completed studies of their cleantech capabilities and assets, and have initiatives under way to grow the cleantech sectors of their economies. In total, these studies, reports, and initiatives provide a good starting place for any community looking to attract and grow cleantech. Reports and studies from other places can serve as a template for a Metro Orlando Cleantech Study.

Orange County/Orlando/Florida

Mayor Crotty Launches Cleantech Economic Development Initiatives

<http://www.orangecountyfl.net/cms/orangemedia/countynews/stories/102308.htm>

Orange County Cleantech Symposium Series

http://www.aeanet.org/events/fljs_OCGTS.asp

Orange County, FL 2008 State of the County Address

http://www.orangecountyfl.net/cms/ORANGEMEDIA/otv/otvprograms/2008_State_of_the_county.htm

Governor Christ: 2008 State of the State Address

http://www.flgov.com/2008_sos

Upcoming Enterprise Florida – Cleantech Group webinar to offer cleantech business growth strategies

<http://www.eflorida.com/PressDetail.aspx?id=7158>

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Cleantech Industry in San Diego: An Assessment of Assets and Capabilities

<http://www.sandiego.gov/cpci/press/cleantechjune07.pdf>

(March 18, 2008 Press Release): City Partners with UCSD to Cultivate Home-Grown Clean Technology Innovation

<http://www.sandiego.gov/cpci/press/pdf/2008/cleantechmarch08.pdf>

(March 18, 2008 News): City and UC San Diego Cultivate Cleantech

http://www.jacobsschool.ucsd.edu/news/news_releases/release.sfe?id=723

San Diego Cultivating Alliances to Grow Cleantech

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Cleantech San Diego Mission Statement

<http://www.cleantechsandiego.org/>

San Diego Cleantech Initiative (apply for seed funding now through the von Liebig Center)

http://www.vonliebig.ucsd.edu/services/services_seed/clean.shtml

City and UC San Diego Cultivate Cleantech (UC San Diego's von Liebig Center)
http://www.vonliebig.ucsd.edu/about/about_news/release.sfe?id=723

San Diego Cleantech Initiative Application Guidelines (von Lieberg Center)
<http://www.tto.sdsu.edu/cleantechapplguide.html>

San Diego and Von Liebig Center Award First Grants Under New Cleantech Initiative
<http://www.xconomy.com/san-diego/2008/10/31/san-diego-and-von-liebig-center-award-first-grants-under-new-cleantech-initiative/>

San Diego Cleantech Advertisement
<http://www.sandiego.gov/economic-development/business-assistance/cleantech/pdf/cleantechad.pdf>

City of San Diego Cleantech Initiative
(read about the cleantech forums under "Partners")
<http://www.sandiego.gov/economic-development/business-assistance/cleantech/>

Mayor Sanders Launches Clean Technology Initiative: Cluster Analysis project Underway; City to Hire Cleantech Manager
http://www.sandiego.gov/mayor/pdf/cleantech_4_10.pdf

San Diego Cleantech Accomplishments
<http://www.cleantechsandiego.org/reports/City-of-San-Diego-Accomplishments-May-2008.pdf>

San Diego Woos Cleantech
<http://www.sustainableindustries.com/breakingnews/7015367.html>

[San Diego] Announces New Cleantech Trade Association to Accelerate Formation of Region's Cleantech Businesses
http://www.gablepr.com/pdfs/PDFs_ClientNews/Mayor-Sanders.pdf

Mayor of San Diego announces creation of new cleantech trade association
<http://www.marketwirecanada.com/mw/release.do?id=746275&k=>

2008 Clean Technology Venture Roundtable (San Diego)
<http://www.biocom.org/Default.aspx?tabid=86&mid=550&ctl=EventDetails&EventID=1864>

CleanTech San Diego
<http://www.biocom.org/Default.aspx?tabid=86&mid=550&ctl=EventDetails&EventID=1864>

CleanVenture: The Cleantech and Renewable Energy Incubator (San Diego)
<http://www.cleanventure.org/1301.html>

Will state lead the nation in 'clean tech'?
http://www.signonsandiego.com/uniontrib/20060519/news_lz1e19beebe.html

Cleantech San Diego (program contact information)
<http://www.connect.org/programs/cleantech-san-diego/>

Green eyes on future: Officials want city to be leader in "cleantech"
<http://www.signonsandiego.com/news/metro/20080708-9999-1m8green.html>

Cleantech News: University of California San Diego
<http://cleantechnews.hivefire.com/entity/profile/uc-san-diego/>

Global Connect
<http://globalconnect.org/>

http://globalconnect.org/documents/GC_Brochure_Small.pdf

San Jose and Silicon Valley

San Jose Legislative priorities in the areas of solar and Cleantech for 2008-2009

http://www.sanjoseca.gov/clerk/Agenda/031808/031808_07.02.pdf

SVB Silicon Valley bank Opens Cleantech Practice

<http://orlando.bizjournals.com/sanfrancisco/stories/2008/01/14/daily5.html>

Silicon Valley Revs Up Cleantech Development

<http://www.climatebiz.com/news/2007/09/26/silicon-valley-revs-up-clean-tech-development>

Join the San Jose Cleantech Network

<http://entrepreneur.meetup.com/1456/>

San Jose City Council Unanimously Adopts Mayor Reed's Green Vision

<http://sanjoseca.gov/mayor/news/releases/October07/2007%2010%2030%20Green%20Vision%20Adoption%20release.pdf>

San Jose Cleantech Legislative Agenda 2008-2009

<http://www.sanjoseca.gov/mayor/goals/environment/CleanTechLegislativeAgenda.pdf>

San Jose's Green Vision Document

<http://www.sanjoseca.gov/pdf/SanJoseGreenVision.pdf>

San Jose Green Vision

<http://www.sanjoseca.gov/greenvision/>

In San Jose, Going Green Isn't Just About the Environment

http://www.sjchamber.com/about/going_green.php

Cleantech Innovation San Jose (create 25,000 cleantech jobs)

<http://www.sanjoseca.gov/greenvision/CleanTech.asp>

Edenvale Technology Park lands another solar company, adds to cleantech image

<http://www.bizjournals.com/sanjose/stories/2008/06/30/story13.html>

SVTC becomes fourth solar company to call Evandale home

<http://orlando.bizjournals.com/sanjose/stories/2008/05/05/story14.html>

Monthly Nano Bio Clean Tech Forum (San Jose)

<http://www.ianano.org/Nanobiocleantech.htm>

2008 California Cleantech Open (San Jose)

<http://sanjose.bizjournals.com/sanjose/stories/2008/04/07/story12.html>

<http://www.sanjoseca.gov/mayor/news/recentevents/Event032.asp>

<http://www.reuters.com/article/pressRelease/idUS181669+02-Apr-2008+MW20080402>

<http://earth2tech.com/2008/07/22/california-clean-tech-open-announces-2008-finalists/>

Sustainable Silicon Valley

<http://www.sustainablesiliconvalley.org/>

General Meeting:

<http://www.sustainablesiliconvalley.org/docs/June%2022%202007%20mthly%20mtg%20all.pdf>

San Francisco Bay Area

East Bay Green Economy Industry Cluster Study (Berkeley, Oakland area)

<http://www.oaklandpartnership.com/2008%20Clusters/Green/East%20Bay%20Green%20Economy%20Industry%20Cluster%20Study.pdf>

Mayors Form Partnership to Build Regional Green Economy

<http://www.ci.richmond.ca.us/index.asp?nid=1353>

East Bay Mayors, UC Chancellor Unite for "Green Wave"

http://docs.cpuc.ca.gov/eeworkshop/CPUC-new/summit/docs/green%20tech_East%20Bay%20Green%20Corridor_2007.pdf

East Bay Announces its "Green Corridor" Ambitions

http://berkeley.edu/news/media/releases/2007/12/04_green.shtml

S.F. Cleantech Tax Credit Gets Cool Reception

<http://orlando.bizjournals.com/sanfrancisco/stories/2008/08/04/story8.html?t=printable>

San Francisco Bay Area "cleantech" Study....

Despite the growing national and regional interest in green businesses, there have been few attempts locally to understand the structure of this emerging industry. In 2007, SPUR launched a study of the Bay Area's "cleantech" sector. As a member of the Mayor's Clean Technology Advisory Council, we recognized the need for a comprehensive understanding of this emerging sector and an understanding of which segments are most competitive in San Francisco. Through the financial support of PG&E, we received funding to hire ICF International, the same firm that produced the City's Economic Strategy, and Business Cluster Development. We have built a database of nearly 1,000 Bay Area cleantech firms and surveyed their business location decisions and perception of San Francisco. Stay tuned for the final results.

http://www.spur.org/documents/040108_article_06.shtm

San Francisco Launches Survey of Bay Area's Cleantech Industry (See Page 3)

Contact" Egon Terplan, eterplan@spur.org

(SPUR = San Francisco Planning + Urban Research Association)

<http://www.spur.org/newsletters/1007Urbanist.pdf>

Biotech, Web 2.0 tenants fill up Ellis' 717 Market

<http://orlando.bizjournals.com/sanfrancisco/stories/2008/08/18/newscolumn1.html>

Technology Partners Forms \$300M Cleantech , Life Science Fund

<http://orlando.bizjournals.com/eastbay/stories/2007/07/30/daily9.html>

Universities Plan \$1 Billion Installation at Moffett Field

<http://orlando.bizjournals.com/sanfrancisco/stories/2008/10/27/focus8.html>

"Building the Cleantech Crossroads"

<http://www.allbusiness.com/government/government-bodies-offices-legislative/5297936-1.html>

Cleantech venture Network Opens Bay Area Office

<http://orlando.bizjournals.com/eastbay/stories/2005/01/17/daily32.html>

Sacramento

City Council (Sacramento) aims to bring clean-tech to town

<http://masshightech.bizjournals.com/sacramento/stories/2007/08/20/daily27.html>

Sacramento Cleantech Action Team

<http://www.valleyvision.org/partnership/New-cleantech.html>

Valley Vision – click on :Learning the Needs of Local Cleantech Companies”

http://www.valleyvision.org/press/Catalyst_Aug%2007.html#LETTER.BLOCK10

Why is the Sacramento Region the best place to locate and grow a clean technology company?

<http://www.sactoedc.org/sacto/linkserv/?contentid=957926F9-953B-497F-D570CB1F1B9D48DC>

Research is vital to region’s green-tech growth (Sacramento)

<http://www.bizjournals.com/sacramento/stories/2007/08/27/focus5.html>

Editorial: Is our region ready to be a clean-tech mecca? – Local actions will determine whether companies want to make their home here

<http://www.sacbee.com/110/story/423631.html>

(Sacramento) Clean Energy in the Capital Corridor: Making the Region a Green Powerhouse

<http://www.mtisac.com/mti/linkserv/?contentid=A387280F-A9FD-459D-8EC657DE3394F7F4>

CleanStart: Supporting Clean Energy Ventures

<http://www.cleanstart.org/>

Sacramento Clean Energy Blog

<http://greensacramento.blogspot.com/2007/07/gigaom-reports-on-rise-in-cleantech.html>

Santa Cruz CA

City of Santa Cruz Cleantech Incubator

<http://www.ci.santa-cruz.ca.us/cc/archives/07/3-27meeting/3-27rpt/ra021.htm>

California

California Cleantech Advantage Act of 2008

http://www.ftb.ca.gov/law/legis/07_08bills/ab1527_010708.pdf

(California) Assembly Committee on Jobs, Economic Development, and the Economy – 2007 Summary of Legislation

<http://www.assembly.ca.gov/acs/committee/c131/Publications/2007%20End%20Year%20Report.doc>

Funding Aims to Plug Cleantech Money Gap

<http://orlando.bizjournals.com/sanfrancisco/stories/2008/08/25/story6.html>

Study Links Clean Technology to Potent Job Growth

<http://www.greenbiz.com/news/2004/09/13/study-links-clean-technology-potent-job-growth>

Creating the California Cleantech Cluster (2004)

<http://www.nrdc.org/air/energy/cleantech/cleantech.pdf>

<http://www.nrdc.org/air/energy/cleantech/contents.asp>

Creating Cleantech Clusters (2006 Update)

<http://www.e2.org/ext/doc/2006%20National%20Cleantech%20FORMATTED%20FINAL.pdf>

California’s Cleantech Industry: Annual Venture Capital Investment Update 2006

<http://www.e2.org/ext/doc/2006%20CA%20Cleantech%20Update%20FINAL.pdf>

California Cleantech Open: Calling All Cleantech Entrepreneurs

<http://www.cacleantech.com/>

http://www.cacleantech.com/events.php?page=eventDetail_developing_world

Sustainability Starter Kit: <http://www.cacleantech.com/resources.php?page=sustainability>

California Clean Tech Open Rewards Creativity
http://www.cleantechopen.com/docs/pdf/SF_BusinessTimes_Green_Business_Awards.pdf

Gov. Schwarzenegger Signs Landmark Legislation to reduce Greenhouse Gas Emissions
<http://gov.ca.gov/index.php?/press-release/4111/>

California Global Warming Solutions Act of 2006
http://www.pewclimate.org/what_s_being_done/in_the_states/ab32

Everybody is Talking about Global Warming. But California is Actually Doing Something
<http://www.solutionsforglobalwarming.org/>

California Center for Sustainable Energy
<http://www.energycenter.org/ContentPage.asp?ContentID=63&SectionID=363>

California Carving Clean Energy Niche
<http://www.siteselection.com/features/2007/sep/northCalif/>

California's Economic Development Programs: Meeting the Challenges of Today's Economy (See Page 11, The Emergence of a Clean Technology Industry Cluster)
http://www.thecaliforniaindex.org/2legislative/Final_ED_White_Paper_March_27_Hearing.doc

California's Position in Technology and Science: A Comparative Benchmarking Assessment
<http://www.ci.rocklin.ca.us/civica/filebank/blobload.asp?BlobID=9754>

Austin

City (Austin) forming policies to help budding tech firms prosper
<http://masshightech.bizjournals.com/austin/stories/2007/08/20/story8.html>

City of Austin, texas Continues Support for Cleantech sector
<http://www.renewableenergyworld.com/rea/news/story?id=49872>

Austin Incentives
<http://austinchamber.com/DoBusiness/TheAustinAdvantage/CenTexRCIC.html>

HelioVolt Announces New Solar Plant in Austin
http://austinchamber.com/DoBusiness/MediaCenter/successes/2007_12_01.html

Emerging Technology Fund gears up to finance local startups
<http://austin.bizjournals.com/austin/stories/2006/09/11/story6.html>

Austin Cleantech Incubator
<http://www.ati.utexas.edu/clean-energy/clean-energy-3.html>

Nurturing Clean tech Companies in Austin, Texas; Supporting Renewables in the Farm Bill (Podcast)
<http://www.renewableenergyworld.com/rea/news/podcast?id=50003>

Tech meets Green: The door64 Austin LinkedIn Happy Hour
http://www.enewsbuilder.net/techbytes/e_article001136400.cfm?x=b11,0,w

Austin Cleantech Forum
<http://austincleantechforum.googlepages.com/>

Austin Technology Council
<http://www.austintechnologycouncil.org/>

Seattle and Washington

Seattle Clean Technology Strategic Plan

<http://www.sustainablebizconsulting.com/pdf/Seattle%20Clean%20Tech%20Strategic%20Plan%202008.pdf>

Entrepreneur Mulls Cleantech Incubator

<http://blog.seattlepi.nwsourc.com/venture/archives/143591.asp>

State (Washington) must aggressively pursue its share of cleantech

<http://www.thenewstribune.com/opinion/othervoices/story/368917.html>

Greater Spokane Incorporated (GSI) refines its cluster strategy, targets clean-tech industry

<http://www.allbusiness.com/environment-natural-resources/environmentalism/11484205-1.html>

Boston, Massachusetts, and New England

Energy Efficiency, Renewable Energy, and Jobs in Massachusetts

<http://www.mtpc.org/rebates/reports/clusterreport11405.pdf>

New England Clean Energy Council: Accelerating New England's Clean Energy Economy

<http://www.cleanenergycouncil.org/>

Cleantech: An Agenda for a Healthy Economy (in Massachusetts) Report
10 Ways to Support a Cleantech Economy

<http://sustainableproduction.org/proj.tech.abou.shtml>

<http://sustainableproduction.org/downloads/UMLCleanTechDec2007.pdf>

State's (MASS) cleant-tech moves jolt Renewable Energy Trust

<http://orlando.bizjournals.com/boston/stories/2008/09/01/story9.html>

New England Cleantech Needs More Experience

<http://www.masshightech.com/stories/2008/05/05/newscolumn3-New-England-clean-tech-needs-more-experience.html>

Minneapolis St Paul

Minneapolis Saint Paul Positioned Well for Green Manufacturing Growth

http://www.ci.minneapolis.mn.us/mayor/news/20080422newsmayor_minneapolispositionedforgreenjobgrowth.asp

Making it Green in Minneapolis St Paul

http://www.ci.minneapolis.mn.us/sustainability/docs/MakingItGreenReport_2008.pdf

Pittsburgh

Pittsburgh Tech Council forms network to promote "clean" companies

<http://orlando.bizjournals.com/pittsburgh/stories/2008/05/12/story9.html>

Canada

Capitalising on Green: Fostering Canada's Cleantech Entrepreneurs

Recommendations of the Capitalising on Green Task Force

<http://www.actioncanada.ca/english/pdf/cleanTech.pdf>

Canadian Cleantech Fund to Launch

<http://www.thestar.com/article/261915>

\$100 Million Canadian Cleantech Fund in the Works

<http://tyler.blogware.com/blog/archives/2007/9/21/3245328.html>

Ohio

Capturing the Emerging Market for Climate-Friendly Technologies: Opportunities for Ohio

<http://www.pewclimate.org/node/2229>

New York

Cleantech: A New Economic Engine of Economic Growth for New York State (2007)

<http://www.nycif.org/pdfs/CleantechReport.pdf>

http://www.nycif.org/pdfs/cleantech_4pg.pdf

Green Policy is Good Economic Policy

<http://www.osc.state.ny.us/green/policypaper.pdf>

Other Studies, Reports and Initiatives

Hot Topics: Cleantech (Reports from Stanford Graduate School of Business)

<http://www.gsb.stanford.edu/jacksonlibrary/articles/hottopics/cleantechnology.html>

Sweden Cleantech Incubators

<http://www.scti.se/english/start/>

Federal Program Could Speed Up “Cleantech” Commercialization

<http://orlando.bizjournals.com/houston/stories/2008/03/03/daily7.html>

Import-Export Bank’s Focus Could Help Cleantech Clean Up

<http://orlando.bizjournals.com/sanjose/stories/2008/02/18/story9.html>

How Can Cities Attract Clean-Tech and Green Buildings? (Video)

<http://www.triplepundit.com/pages/how-can-cities-attract-cleante-003166.php>

The Innovation Driven Economic Development Model: A practical Guide for the Regional Innovation Broker

<http://www.bayeconfor.org/media/files/pdf/InnovationDrivenEconomicDevelopmentModel-final.pdf>

Building the Knowledge Capitals of the Future (Clusters)

http://www.nyas.org/snc/uu/autumn_08/08_Magazine_Autumn_Coverstory.pdf

New Approaches to Economic Development Strategy (Clusters)

<http://realneo.us/blog/ed-morrison/new-approaches-to-economic-development-strategy>

Colorado Cleantech seeking Bay Area capital

<http://orlando.bizjournals.com/sanfrancisco/stories/2008/08/18/story6.html>

Pittsburg Tech Council forms Network to Promote “Clean” Companies

<http://orlando.bizjournals.com/pittsburgh/stories/2008/05/12/story9.html>

Panel proposes plan for ‘cleantech’ park in Singapore

<http://www.asiaone.com/News/the%2BStraits%2BTimes/Story/A1Story20080621-72077.html>

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<http://www.prosperitypartnership.org/clusters/environment/index.htm>

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http://www.prosperitypartnership.org/clusters/environment/cleantech_initiatives093005.pdf

Clean Energy Trends 2008

<http://earth2tech.com/2008/03/11/clean-edges-top-5-cleantech-trends/>

<http://www.cleandedge.com/reports/reports-trends2008.php?report=Trends2008.pdf>

Charts & Tables: <http://www.cleandedge.com/reports/charts-reports-trends2008.php>

Full Report: <http://www.cleandedge.com/reports/accessReport.php?rp=/reports/reports-trends2008.php&report=Trends2008>

Earth, Wind, and Fire: A Cleantech Perspective (includes section of definition of cleantech)

<http://www.cleantechsandiego.org/reports/Pacific.Growth.Cleantech.2007.pdf>

Cleantech Matters, Vol 1, Issue 2, September 2007 (Ernst & Young)

[http://www.ey.com/Global/assets.nsf/US/CleantechMatters_September_2007.pdf/\\$file/CleantechMatters-September2007FINAL.pdf](http://www.ey.com/Global/assets.nsf/US/CleantechMatters_September_2007.pdf/$file/CleantechMatters-September2007FINAL.pdf)

Partnership: Clean Technology Global Trends and Insights Report 2007 (Ernst & Young)

[http://www.ey.com/Global/assets.nsf/International/SGM_Cleantech-InsightsReport2007/\\$file/SGM_Cleantech-InsightsReport2007.pdf](http://www.ey.com/Global/assets.nsf/International/SGM_Cleantech-InsightsReport2007/$file/SGM_Cleantech-InsightsReport2007.pdf)

Cleantech Matters – Winter 2008: Financing, Partnership, Policy and Growth-Insights from the Cleantech Symposium

[http://www.ey.com/Global/assets.nsf/International/Cleantech_Matters_Winter_2008/\\$file/CleantechMatters_III_Winter_2008.pdf](http://www.ey.com/Global/assets.nsf/International/Cleantech_Matters_Winter_2008/$file/CleantechMatters_III_Winter_2008.pdf)

Cleantech Matters – Autumn 2008: Climate Change Opportunity and Risk

http://www.ey.com/global/Content.nsf/US/SGM_Cleantech_Matters

[http://www.ey.com/Global/assets.nsf/US/Cleantech_Matters_Autumn_2008/\\$file/Cleantech%20Matters%20Autumn%202008.pdf](http://www.ey.com/Global/assets.nsf/US/Cleantech_Matters_Autumn_2008/$file/Cleantech%20Matters%20Autumn%202008.pdf)

<http://www.earthtimes.org/articles/show/ernst--young-report-addresses,585912.shtml>

Cleantech Opportunities: Necessity is the Mother of Invention (May 2008)

<http://www.seca.ch/default.asp?FILE=items/8352/370/Emerald-Domanig.pdf>

State of Green Business 2008

<http://www.greenbiz.com/column/2008/01/30/the-state-green-business-2008>

<http://www.stateofgreenbusiness.com/>

The Cleantech Report (Lux Research)

<http://www.luxresearchinc.com/cleantech.php>

2Q 2007 Venture Insights: Clean technology Benchmarks (Ernst & Young)

[http://www.ey.com/Global/assets.nsf/International/2Q_2007_Venture_Insights_Clean_Technology_Benchmark/\\$file/2Q_2007_Venture_Insights.pdf](http://www.ey.com/Global/assets.nsf/International/2Q_2007_Venture_Insights_Clean_Technology_Benchmark/$file/2Q_2007_Venture_Insights.pdf)

Ottawa Cleantech Initiative

<http://www.ottawacleantech.com/Home/index.php>

Pennsylvania hands out \$5.4 million in cleantech grants

<http://media.cleantech.com/2075/pennsylvania-hands-out-5-4m-in-cleantech-grants>

State must aggressively pursue its share of cleantech (Washington)

<http://www.thenewstribune.com/opinion/othervoices/story/368917.html>

Vermont's Green Light for Cleantech

http://www.fdimagazine.com/news/fullstory.php/aid/1645/Vermont%92s_green_light_for_clean_tech.html

Why States Lead the Way: State involvement in promoting renewable technologies has profound implications for the future of the energy industry

<http://www.pur.com/pubs/4512.cfm>

Cleantech Venture day 2008 (Finland)

http://www.lahtimecatronics.fi/filebank/1160-CleantechVentureDay2008_FactSheet.pdf

Finnish Cleantech Cluster

<http://www.cleantechcluster.fi/en/>

Cleantech Program responds to global demand of environmental technology (Finland)

<http://www.energy-environment.eu/index.php?PAGE=1304>

TEKEL: Finnish Science Park Association

<http://tekel-fi->

bin.directo.fi/@Bin/91e4e71d3eb6bd2fb104866f0e17dd5a/1217954919/application/pdf/95125903/TEKEL_Apr2008.pdf

500 New "Green Collar" Manufacturing Jobs Coming to Niagra Falls

<http://www.glbsm.com/news/News-20080520.pdf>

Ottawa Cleantech Mission to China

http://www.ottawacleantech.com/media_lib/Word_Documents/OCRI_cleantech_mission_to_China.doc

Scandinavian Cleantech Capital Day

http://www.cleantechscandinavia.com/pdf/2007-11-09%20CCP_Lahti.pdf

Cleantech Scandinavia Membership Fact Sheet (October 2008)

<http://www.cleantechscandinavia.com/pdf/20081002%20Membership%20factsheet.pdf>

Cleantech Research and Entrepreneurship Group (U of Michigan)

<http://www-personal.umich.edu/~adriaens/Site/Welcome.html>

The Cleantech in China Report/Initiative

<http://www.cleantech-in-china.com/tiki-index.php>

Green Gateway Business Community

<http://www.greengatewaygroup.org/>

21st Century Possibility:

http://www.greengatewaygroup.org/project%20docs/GGBC_20080921_FINALwADDMopt.pdf

Clean Technology:

http://www.greengatewaygroup.org/project%20docs/GGBC_20080921_CLEANTECHopt.pdf

Australian Cleantech

<http://www.auscleantech.com.au>

Cleantech Startups

<http://www.cleantechstart-ups.com/>

Global Challenges/Regional Strategies: Are Today's Policies fit for the Future?

<http://www.nutek.se/content/1/c4/41/54/OECD-konf.pdf>

Examples of Cleantech Symposiums, Forums, and Roundtables

[\(Back to Top of Document\)](#)

- San Diego:
 - City/EDC Cleantech Forums(see “partners section”): <http://www.sandiego.gov/economic-development/business-assistance/cleantech/>
 - 2008 Clean Technology Venture Roundtable: <http://www.biocom.org/Default.aspx?tabid=86&mid=550&ctl=EventDetails&EventID=1864>
 - AeA/Cleantech Green to Gold San Diego Seminar
http://www.aeanet.org/Events/sdsc_cleantech_08.asp
<https://www.aeanet.org/AeACouncils/SDCouncilStart.asp>
- San Jose
 - San Jose Cleantech Network (see synopsis of over a dozen networking meetings): <http://entrepreneur.meetup.com/1456/>
 - Nano Bio Cleantech Forum (monthly meetings) <http://www.ianano.org/Nanobiocleantech.htm>
 - Cleantech Breakfast Series <http://upcoming.yahoo.com/event/830798/>
 - Silicon Valley v2.0 — a cleantech cluster in the making <http://eetdseminars.lbl.gov/seminar.php?seminar=42>
- Austin
 - Austin Clean Tech Forum: <http://austincleantechforum.googlepages.com/>
 - Austin Clean Tech Forum (meeting summary): <http://www.worldchanging.com/local/austin/archives/006359.html>
 - CleanTX Forum: http://cleantx.org/?page_id=38
 - April 26 meeting of Austin Clean Tech Forum: http://findarticles.com/p/articles/mi_m0EIN/is_2007_April_19/ai_n27209301
- Sacramento
 - Cleantech Business Roundtable Luncheons: http://www.valleyvision.org/press/Catalyst_Aug%2007.html#LETTER.BLOCK10
 - Sacramento Region Clean Energy Showcase <http://www.cleanstart.org/CES/2008/index.html>
- Santa Clara, CA
 - Bay Area Startup Network – Monthly Cleantech Meetings <http://www.acteva.com/booking.cfm?bevalD=120840>
 - Bay Area Startup Network Cleantech Breakfast <http://www.basn.org/events.html#jul17>
- San Francisco
 - Bay Area Innovation Network Roundtable <http://www.bayareabasic.org/basicpublications.html>

- Denver: CORE Colorado Business Programs (scroll down to “Business Breakfast Series” and “Colorado Cleantech Initiative”)
 - <http://www.corecolorado.org/Default.aspx?pagelD=139862>
- Other places
 - Oregon Cleantech Cluster Meeting Minutes
<http://www.ci.corvallis.or.us/council/mail-archive/mayor/docaciKb9cT6y.doc>
 - Renewable Energy Business Network – East
<http://rebn-east.weebly.com/>
 - Ernst & Young Cleantech Symposium (see Page 41)
[http://www.ey.com/Global/assets.nsf/US/CleantechMatters_September_2007.pdf/\\$file/CleantechMatters-September2007FINAL.pdf](http://www.ey.com/Global/assets.nsf/US/CleantechMatters_September_2007.pdf/$file/CleantechMatters-September2007FINAL.pdf)
 - Cleantech industry networks in Israel
<http://www.israelcleantech.com/pdf/GlobesCleantechIsrael.pdf>
 - Boston Cleantech Venture Day
<http://cleantechventureday.com/>
http://cleantechventureday.com/files/CleanTechVentureDay_participants_printversion.pdf
 - Ottawa
<http://www.startupottawa.com/?p=295>
http://www.ottawacleantech.com/Projects_and_Initiatives/Ottawa_Clean_Energy_Cluster/Ottawa_Clean_Energy_Cluster.php
 - Babson College (MA) Energy & Environmental Club
<http://www.babsonenergy.com/>
 - Mergers & Acquisitiona
Roundtable: Cleantech Comes of Age (Discussion)
http://www.accessmylibrary.com/coms2/summary_0286-33848010_ITM
 - Library House Essential Cleantech 2008
<http://www.libraryhouse.net/cleantech/2008/>

Job Growth in Cleantech

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Cleantech jobs are jobs in cleantech companies. Cleantech jobs are jobs in companies that produce the products and provide the services that are allowing the world to go green.

Another useful definition might be “basic cleantech jobs.” These could be defined as jobs in basic cleantech companies in Metro Orlando—companies that export most of their products or services and bring new money into Metro Orlando. “Non-basic cleantech jobs” would be jobs in cleantech companies that serve the local market and do not bring new money into the region.

The cleantech industry has the potential to directly create a wide range of high-wage high-skilled jobs in research and development, design, manufacturing, and operations. It can also create a wide-range of indirect jobs that support the industry, such a lawyers, accountants, bankers, and environmental consultants.

Engine of Growth: Cleantech Jobs (January 2008)
<http://www.csmonitor.com/2008/0124/p02s04-ussc.html>

Cleantech Jobs are Getting Hot
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Tapping into the Clean-Tech Job Machine

http://makower.typepad.com/joel_makower/2007/02/tapping_into_th.html

Clean tech: Everyone wants in, but skills may not translate

<http://masshightech.bizjournals.com/masshightech/stories/2007/08/06/story9.html>

Program Helps Professionals Break into Nanotech, Cleantech

<http://orlando.bizjournals.com/sanjose/stories/2008/07/07/story5.html>

School's in Session for Cleantech economy

<http://orlando.bizjournals.com/sanjose/stories/2008/02/11/focus1.html>

Cleantech Jobs Need a Boost

<http://orlando.bizjournals.com/sanjose/stories/2008/03/03/editorial1.html>

Finding the Right Fit: In a slowing economy, tech companies are pickier about hiring experienced workers with specific technical skills

<http://orlando.bizjournals.com/sanfrancisco/stories/2008/08/04/focus1.html>

Green Movement create new legal opportunities

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Evolving East Bay MBA Programs Place New Emphasis on Ethics, Global Business (San Fran)

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How cleantech will bring manufacturing jobs back to the United States

http://www.news.com/8301-10784_3-9808686-7.html

The Ten-Point Plan for Good Jobs and Energy Independence

http://www.apolloalliance.org/resources_tenpointplan.php

Cleantech Domestic Job Creation

<http://www.csievents.org/Summit2007/spk/SDiFranco.pdf>

Cleantech Job Creation Opportunities (Oregon, Jan 2008)

<http://www.oeda.biz/07files/pdfs/cleantech.pdf>

Top 10 Cleantech Jobs

<http://earth2tech.com/2007/10/18/top-10-cleantech-jobs/>

Cleantech jobs need a boost

<http://sanjose.bizjournals.com/sanjose/stories/2008/03/03/editorial1.html>

Solar Industry's Rapid Growth Leaves Shortage in Workforce

<http://milwaukee.bizjournals.com/milwaukee/othercities/sanjose/stories/2008/05/19/story8.html?b=1211169600^1636383>

Cleantech Job Creation Opportunities (Oregon PowerPoint)

<http://www.oeda.biz/07files/pdfs/cleantech.pdf>

Oakland plugs into clean tech as job generator

<http://masshightech.bizjournals.com/sanfrancisco/stories/2007/06/25/story6.html>

New Mexico: New Study Finds that 20% RPS by 2020 Could Save N.M. Consumers Millions, Create Jobs

<http://www.cleantech.com/story.php?nID=3402>

Arizona: Renewables Can Produce 3,900 Jobs and Billions for Rural Development in Arizona, Says Study

<http://www.cleantech.com/story.php?nID=3143>

New York: Report Shows Renewable Energy Targets Could Create More than 40,000 Jobs in New York

<http://www.cleandedge.com/story.php?nID=3471>

Partnership for New York: Cleantech Source of New Jobs

http://www.nycif.org/news/2007/pr_011607_cleantech.pdf

Cleantech: A New Engine for Economic Growth in New York

http://www.nycif.org/news/2007/pr_011607_cleantech.pdf

Job Jolt Fact Sheets by States in the Mid-West

<http://www.repowermidwest.org/>

Green Collar Jobs

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A much broader category of jobs is Green Collar Jobs. In addition to the direct and indirect cleantech jobs associated with companies producing the products and services that allow the world to go green, Green Collar Jobs can include all of the jobs that use or employ these products and services in going green. On this topic, green is more than clean.

There are many definitions of Green Collar Jobs. A popular study by Dr. Raqual Pinderhughes at San Francisco State University, states: "Green collar jobs are blue collar jobs in green businesses – that is, manual labor jobs in businesses whose products and services directly improve environmental quality (Pinderhughes, 2006). Green collar jobs are located in large and small for-profit businesses, non-profit organizations, social enterprises, and public sector institutions. What unites these jobs is that all of them are associated with manual labor work that directly improves environmental quality."

There are many more definitions of Green Collar Jobs as demonstrated in the following references. Writing in the Wall Street Journal, Keith Johnson states: "...in a nutshell, 'green-collar jobs' can run the gamut from park rangers to Prius mechanics to physicists fiddling with nano photovoltaic research."

One thing seems certain: most Green Collar Jobs depend upon Cleantech companies and Cleantech Jobs.

Take Two: Green-Collar Jobs (Wall Street Journal, provides varying definitions of "Green Job")

<http://blogs.wsj.com/environmentalcapital/2008/02/01/take-two-green-collar-jobs/?mod=WSJBlog&mod=WSJBlog>

Study Says: Green Economy Can Grow Jobs <http://www.scoopit.co.nz/story.php?title=Study-Green-Economy-Can-Grow-Jobs> (see next entry)

Green Collar Jobs: An Analysis of the Capacity of Green Businesses to provide High Quality Jobs for Men and Women with Barriers to Employment (2007) - Dr. Pinderhughes Study

<http://www.ellabakercenter.org/page.php?pageid=26&contentid=350>

Executive Summary: <http://bss.sfsu.edu/raquelrp/documents/v13ExecSummary.pdf>

Full Report: <http://www.ellabakercenter.org/downloads/rtf/v12OctoberFullReport.pdf>

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http://www.peri.umass.edu/green_jobs/

Download the Report:

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Green Technology: Where the Jobs Are

http://makower.typepad.com/joel_makower/2006/03/green_technolog.html

Surge in Solar Training Fuels Training Needs (Silicon Valley)

<http://orlando.bizjournals.com/sanjose/stories/2008/03/03/story1.html>

Colleges get grants to help beef up supply of solar installers

<http://orlando.bizjournals.com/sanjose/stories/2007/11/05/story10.html>

Help Wanted—Green: Green development could be a big generator of good jobs if America will seize the opportunity

http://www.policyschool.neu.edu/research/ssrw/spring_2007/documents/HelpWantedGreenTAP.pdf

Green Jobs: Towards Sustainable Work in a Low-Carbon World

http://www.unep.org/labour_environment/pdfs/green-jobs-preliminary-report-18-01-08.pdf

UNEP (UN Environment Programme) Background paper on Green Jobs

http://www.unep.org/labour_environment/PDFs/Green-Jobs-Background-paper-18-01-08.pdf

Green Job Boom

<http://www.dupageworkforceboard.com/downloads/Green%20Job%20Boom%20-%20article.doc>

60,000 Green Jobs Projected for Northwest

<http://www.mrcleantech.com/category/pacific-northwest/>

The green job boom: Renewable energy supporters say the industry could create millions of new jobs, but economists are split.

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Green energy should create 20 million jobs by 2030

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http://www.ilr.cornell.edu/news/031908_GreenJobs.html

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<http://www.cows.org/pdf/pr-greenerpathways312.pdf>

Greener Pathways: Jobs and Workforce Development in the Clean Energy Economy

<http://www.cows.org/greenerpathways/>

Media Release: <http://www.cows.org/pdf/pr-greenerpathways312.pdf>

National Media Release (6 Pages): <http://www.cows.org/pdf/pr-greencollarjobs.pdf>

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<http://urbanhabitat.org/node/528>

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The Green Collar Solution

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Creating Green-Collar Jobs

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Green Collar Jobs Overview

<http://greenforall.otis.onenw.org/resources/green-collar-jobs-overview>

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<http://www.wetfeet.com/Insider%20Guides/Green%20Careers.aspx>

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http://www.iccsafe.org/news/green/Initiating_Green_Building_Program.pdf

Austin Energy Green Building: America's #1 Green Building Program

<http://www.austinenergy.com/Energy%20Efficiency/Programs/Green%20Building/index.htm>

NAHB Green Building Program

<http://www.nahbgreen.org/>

Seattle's Sustainable Purchasing Program

<http://www.seattle.gov/environment/Purchasing.htm>

Sustainable Building Sourcebook

<http://www.austinenergy.com/Energy%20Efficiency/Programs/Green%20Building/Sourcebook/greenBuildingDesignTools.htm>

Sustainable Building Links

http://www.seco.cpa.state.tx.us/re_sustain_links.htm

Green Building/Green Roof Comparative Policy Matrix (policies and incentives in cities/states)

<http://www.ssbx.org/documents/SSBxGreenBuildingMatrix2006.pdf>

City of Chicago Green Permit Program

<http://www.illinoisashrae.org/HealthySchool/ASHRAE%20Green%20Permit%20Program.pdf>

Chicago's Green Roof Revolution

<http://www.thedailygreen.com/environmental-news/latest/1006>

With Help from City Hall, Chicago Warms Up to Cool Roofs

<http://jasonphillip.greenoptions.com/2007/10/15/with-help-from-city-hall-chicago-warms-up-to-cool-roofs/>

Green Roofs – Cooling Los Angeles (A Resource Guide, including an “incentives” section)

http://www.fypower.org/pdf/LA_GreenRoofsResourceGuide.pdf

Green Roofs Playing a Greater Role in American Cities

http://www.associatedcontent.com/article/269236/green_roofs_playing_a_greater_role.html

Green Roofs Popping Up in Big Cities: Environmentally friendly industry coming into its own

<http://www.msnbc.msn.com/id/24056306/>

Growing Green Roofs, City by City

<http://www.pubmedcentral.nih.gov/articlerender.fcgi?artid=1892107>

Green Roofs for Healthy Cities

http://www.greenroofs.org/index.php?option=com_frontpage&Itemid=1

Seattle Green Roof Evaluation Project

<http://seattlepi.nwsource.com/dayart/pdf/MKA-Greenroof-Evaluation-Project.pdf>

City of Minneapolis Green Initiatives

<http://www.ci.minneapolis.mn.us/stormwater/green-initiatives/index.asp>

Minnesota Green Roofs Council
<http://www.mngreenroofs.org/thelist>

Orange County Florida Solar Hot Water Incentive Program
<http://www.orangecountyfl.net/cms/DEPT/CEsvcs/epd/SolarWaterProgram.htm>

California Energy Commission PIER Program (Public Interest Energy Research)
<http://www.energy.ca.gov/pier/>
PIER Program Areas: <http://www.energy.ca.gov/pier/programs.html>

Database of State Incentives for Renewables & Efficiency (DSIRE)
<http://www.dsireusa.org/>

Green Manufacturing Coming to a Trade Show Near You
<http://www.industryweek.com/ReadArticle.aspx?ArticleID=14338>

U.S. Proposes Green Manufacturing Day
<http://www.industryweek.com/ReadArticle.aspx?ArticleID=14276>

Solar Tech Manufacturer (Prism Solar) Prepares for Growth with ERP System
<http://www.industryweek.com/ReadArticle.aspx?ArticleID=15931>

Green Tech for Clean Tech
<http://www.industryweek.com/ReadArticle.aspx?ArticleID=15935>

Census of U.S. Manufacturers: Lean Green and Low Cost
<http://www.industryweek.com/ReadArticle.aspx?ArticleID=15009>

The Zero Effect: How to Green Your Facility
<http://www.industryweek.com/ReadArticle.aspx?ArticleID=16515>

Cleantech on YouTube [\(Back to Top of Document\)](#)

San Jose Mayor to Cleantech startups: Call Me!
<http://www.youtube.com/watch?v=pCeNaNkMAJM>

What is cleantech?
<http://www.youtube.com/watch?v=WsaSpzdMnEQ>

How Can Cities Attract Clean-tech and Green Buildings?
<http://www.youtube.com/watch?v=BXJWFaRIeFY>

Presentation Advice for Clean Tech Open Finalists
<http://www.youtube.com/watch?v=v32KZ3Jthjg>

Characteristics of a Winning Cleantech Startup
<http://www.youtube.com/watch?v=jzt6TAdnpp0>

The 2008 Venture Lab Technology Innovation Prize (University of California Berkeley)
<http://www.youtube.com/watch?v=Y7c0ySN7gug>

KPMG Going Green Top 100 Companies 2008
<http://www.youtube.com/watch?v=VRtjjDDca9w>

Going Green 100 Video – AlwaysOn Going Green 2007
<http://www.youtube.com/watch?v=8nd0rnGNpKo>

More Green for Green (KPMG)

http://www.youtube.com/watch?v=m3Jj_02vYYw

John Doerr on Cleantech vs. the Internet

http://www.youtube.com/watch?v=2QTpRP9GY_k

MIT Cleantech/GABA Lecture with Dr. Hermann Scheer (the man who made cleantech investable)

http://www.youtube.com/watch?v=_z7cdDYP_zg

Understanding the Cleantech Investment Opportunity (NDN.org, Washington DC think tank)

http://www.youtube.com/watch?v=4EXMsb__ACg

The GigaOm Show – Clean Tech in 2008 (Draper, Fisher and Jurvetson)

<http://www.youtube.com/watch?v=KNCMUicrRlc>

Vator Reports: The rapidly growing cleantech sector

<http://www.youtube.com/watch?v=efE1i0y-O50>

Green Tech 101 (Foundation Capital)

<http://www.youtube.com/watch?v=jisatMsoqhQ>

Israeli Clean Tech 2008 Exhibition

<http://www.youtube.com/watch?v=GrvOH7VmZRE>

(California) Clean Tech Open “Commercial Building Initiative”

<http://www.youtube.com/watch?v=M1VHg6SAOuk>

Claudia Fan Munce of IBM on Cleantech Startups

<http://www.youtube.com/watch?v=qiao6VqgiH8>

EverGreen: Washington Clean Tech at Work (Washington Clean technology Alliance/Enterprise Seattle)

<http://www.youtube.com/watch?v=sgR3NUf4PyA>

Growing Chicago's Green Business & Clean Tech Economy (Sept 2008)

<http://www.youtube.com/watch?v=mBUSY7ezKWY>

Vinod Khosta: Clean-Tech is About Reinventing Society

<http://www.youtube.com/watch?v=0RwsnsZHvba>

Cleantech Investments (highlights of investor presentations from cleantech companies)

<http://www.youtube.com/watch?v=fcCHq6kLI0o>

Blackstone Starts Cleantech (new group devoted to cleantech investments)

<http://www.youtube.com/watch?v=WfpBysdggGA>

David Kurzman (Senior VP, Panel Intelligence) speaks at an NDN (New Democrat Network) Green Project event in New York City on understanding the Cleantech investment opportunity

http://www.youtube.com/watch?v=Z_r7R1nLYwo

Peter Fusaro (Global Change Associates) speaks at an NDN Green Project event in New York City on understanding the Cleantech investment opportunity

<http://www.youtube.com/watch?v=qbIKjIOWwoE>

California Clean Tech Open – Matt Caspari, Aurora Biofuels

<http://www.youtube.com/watch?v=Gkc0MD5s03M>

Future of the California Clean Tech Open (not just another business plan contest)

<http://www.youtube.com/watch?v=QBjBBKLV6OU>

Essential Cleantech 2007 Event

<http://www.youtube.com/watch?v=-2B3At8eqFg>

Can We Afford Not to Go Solar (Part 1)

<http://www.youtube.com/watch?v=eAHV7k711hFs>

Can We Afford Not to Go Solar (Part 3)

<http://www.youtube.com/watch?v=nUs0m9TKpg8>

Golden Age Technology: Tomorrow's Clean Tech Entrepreneurs

<http://www.youtube.com/watch?v=Z5ropPTy-EM>

Green Roofs

<http://www.youtube.com/watch?v=c2zEN19Veio>

How It's Made – Solar Panels

<http://www.youtube.com/watch?v=qYeynLy6pj8>

Solar Installation Video

<http://www.youtube.com/watch?v=k0BrIM6mV7k>

Green Cities Orlando Florida

<http://www.youtube.com/watch?v=FyY3ZPLmt3I>

Entrepreneur (Orlando) dries clothes with liquid (world's first Green clothes dryer)

http://www.youtube.com/watch?v=CcDcZyB_4rQ

Website: <http://www.dryermiser.com/>

For more videos about Cleantech on YouTube, got to www.youtube.com and enter "cleantech," "solar," or other term in the search box.

Examples of Metro Orlando Cleantech Companies

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All of the following cleantech companies already are clients of UCF Orange County-supported programs such as the Technology Incubator, Venture Lab, and Advisory Board Council:

Sowlar, Inc. Designs, develops and markets concentrating photovoltaic (CPV) modules for use in generating solar energy. The Company's objective is to provide the world most efficient and lowest cost per watt solar modules. <http://www.sowlar.com/>

NovaSol Energy Corporation. NovaSol is an independent power company committed to generating, distributing, and facilitating the adoption of clean, affordable, renewable energy to commercial and industrial customers, greening their organizations and improving the bottom line.

Stormwater Treatment Environments, Inc. Provides unique and aesthetically pleasing greenroofs for commercial real estate developers and owners to meet mandatory storm water management and pollution control regulations. <http://www.stormwaterenvironments.com/>
Case Study: http://www.venturelab.ucf.edu/case_studies/STE_casestudy.pdf

Advanced Industrial Aeration. Provides patented method for high percentage oxidation of water sources. Markets include fish farms, water management service providers, and environmental agencies. <http://www.aiaaeration.com/>

Algae Biofuel Reactors. Early design concept for a unique algae growth technology that significantly reduces the required real estate for growing algae for biofuels and other applications.

Vapex. Vapex provides odor-control and bio-decontamination solutions that are environmentally safe to the wastewater, agricultural and healthcare industries. <http://www.vapex.com/>

Acudyn. A research, design, and development company in the power generation, automotive and aerospace industries. <http://www.acudyn.com/>

Land Design Innovations. Provides land development services, including planning, urban design, civil engineering, landscape architecture, and GIS mapping services to public and private clients. Helps clients to “go green” with green buildings, design, and other means. <http://www.landbiz.com/>

Zerocrete, Inc. A UCF scientific discovery that converts an industrial waste (fly ash) into a substitute for concrete. Production of Zercrete consumes modest energy and produces no carbon dioxide. Conventional cement production is responsible for 5% of the carbon dioxide emitted into the atmosphere. <http://www.nanoholdings.net/index-3.html>

Examples of other Metro Orlando Cleantech companies include:

Planar Energy Devices, Inc. Developing next generation thin-film lithium solid-state batteries that hold more energy, last longer, weigh less, and fit in tiny places.

Website: <http://www.planarenergy.com/>

OBJ:

<http://orlando.bizjournals.com/orlando/stories/2008/07/07/story7.html?b=1215403200^1663485&t=printable>

Bnet: http://findarticles.com/p/articles/mi_m0EIN/is_2007_Oct_22/ai_n21054957

PetraSolar, Inc. Headquartered in Somerset, new Jersey, PetraSolar has opened an office at UCF and is using UCF technology to simplify the design and reduce the costs of installing solar power.

<http://www.petrasolar.com/>

<http://news.ucf.edu/UCFnews/index?page=article&id=00240041045494c8d01161d3164c1007fbe>

Blue Earth Solutions Florida, Inc. Innovative Styrofoam recycling firm establishing a headquarters and main plant in Clermont.

<http://www.blueearthsolutions.com/>

OBJ: <http://orlando.bizjournals.com/orlando/stories/2008/06/23/story8.html>

Amber Station. A company started by students through the UCF Department of Sustainability and Energy Management. Has successfully tested a product that converts used vegetable oil into biodiesel for about \$1.30 to \$1.50 a gallon. Its intent is to market its process to companies that maintain fleets of diesel vehicles. (Jaimeson Jeffrey, Michael Schulist, and Chad Heinrich)

Solar Blue LCC. Solar Blue Manufactures, Installs and sells Solar Heating and Solar Energy systems to Commercial Businesses.

<http://www.solar-blue.com/>

Allsolar Service Company. Allsolar is a Florida-based design-build firm specializing in solar hot water, solar pool heating and Photovoltaic (solar-electric) Power Systems for commercial, industrial and residential applications.

<http://www.allsolarflorida.com/>

AquaFiber Technologies Corporation (located in Winter Park) – a unique biotech water restoration firm with a water remediation facility on the shores of Lake Apopka near Winter Garden. This company has created a water remediation biotechnology, which, along with a strong business plan, envisions the restoration of natural water bodies throughout Florida, the U.S., and the world.

<http://www.aquafiber.com/index.html>

Hydromatic Technologies. Its Dryer Miser conversion kit uses up to 50% less energy and dries clothes up to 41% faster than a typical clothes dryer.

<http://www.dryermiser.com/>

Mitsubishi Power Systems. Its Orlando Service Center (OSC) in Orlando Central Park repairs, services, and manufactures replacement parts for power plants in the United States, Canada, and Latin America, and operates a state-of-the-art monitoring system that tracks the performance of power plants throughout the Western Hemisphere. Beyond routine equipment and restoration, OSC can also enhance turbine performance through current-technology upgrades and modifications that enhance fuel efficiency, output, performance, and service life (cleantech).

http://www.mpsservice.com/service_center.htm

Brochure: http://www.mpsHQ.com/pdf/OSC%20Brochure_Web.pdf

Siemens Power Generation, Inc. (how much happens at Orange County facility?)

<http://www.powergeneration.siemens.com/aboutus/locations/north-america/Orlando.htm>

<http://www.powergeneration.siemens.com/products-solutions-services/>

Siemens VC arm adds clean tech focus led by Emmons:

<http://www.masshightech.com/stories/2008/04/21/story3-Siemens-VC-arm-adds-clean-tech-focus-led-by-Emmons.html>

Siemens Wind Power: <http://www.powergeneration.siemens.com/products-solutions-services/products-packages/wind-turbines/>

Siemens Cleantech Fuel Cell:

http://thefraserdomain.typepad.com/energy/2006/11/siemens_sofc_te.html

Lockheed Martin Missiles and Fire Control Orlando

How much cleantech is undertaken by Lockheed Missiles and Fire Control in Orange County.

Examples of its involvement? Jobs involved?

Lockheed is often featured on the Cleantech Group website:

<http://media.cleantech.com/2272/lockheed-martin-to-use-eestor-batteries>

SAIC. SAIC, headquartered in San Diego, is the largest employee-owned research and engineering company in the United States. Its 44,000 employees help solve problems of vital importance to the nation and the world, in energy and the environment, national security, critical infrastructure, and health. Over 400 employees are located in Orange County, where it is expanding its training and simulations business unit. See the SAIC annual report for details. Contact needs to be made with SAIC to determine the extent of cleantech work done out of its Orange County operations in the Central Florida Research Park.

<http://www.saic.com/>

Annual Report: <http://www.saic.com/news/pdf/Annual-Report2008.pdf>

Example of SAIC Orlando contract: <http://investors.saic.com/phoenix.zhtml?c=193857&p=irol-newsArticle&ID=893858&highlight=>

Note: It may worth differentiating between Basic Cleantech Companies and Cleantech Support Companies. Basic Cleantech Companies would be those that produce products and provide services that are exported outside the region and bringing new money into the region. Most of the companies listed above are Basic Cleantech Companies. Cleantech Support Companies are those that primarily serve the local market and do not bring new money in from outside the region. Companies such as Allsolar, Solar Blue, and Stormwater Treatment Environments are probably Cleantech Support Companies (a little more research may be needed).

Question: To the extent that simulation decreases negative impacts on the real physical environment and increases efficiencies, can the entire Training and Simulation industry in Metro Orlando be considered cleantech? If so, then the military commands in the Central Florida Research Park could be included as "companies," or at least organizations, supporting cleantech. Simulation, as an example, is more environmentally friendly than using real ammunition. This line of reasoning might be too liberal an interpretation of cleantech, though it might at least deserve notice. For example: <http://www.peostri.army.mil/>

Examples of Metro Orlando Programs/Organizations Supporting Cleantech

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UCF Technology Incubator

A university-driven community partnership providing early stage technology companies with the enabling tools, training, and infrastructure to create financially stable high growth enterprises.

- www.incubator.ucf.edu
- Dr. Tom O'Neal
Director, UCF Incubator Network
407-882-0202
oneal@mail.ucf.edu
- Ms. Carol Ann Dykes
Site Manager
UCF Technology Incubator
407-882-0202
cdykes@mail.ucf.edu

UCF Venture Lab

- A place for technology entrepreneurs to transform their ideas and intellectual property into business plans with high growth potential.
- www.venturelab.ucf.edu
- Ms. Kirstie Chadwick
Venture Lab Director and Coach
407-823-1442
kchadwick@bus.ucf.edu

UCF Advisory Board Council Program

- A next-level business support service, assisting Orange County companies by matching them with experienced business professionals with a diverse range of skills who work together on a "custom-fit" advisory board.
- www.advisoryboardcouncil.org
- Ms. Jill Kaufman
Program Manager
407-420-4850
jkaufman@bus.ucf.edu

UCF Small Business Development Center

- Counseling, seminars, and special programs for established as well as emerging business owners in an 8-county region.
- www.sbdcorlando.com
- Ms. Eunice Choi
Director
407-420-4850
eunice.choi@bus.ucf.edu

UCF Institute for Economic Competitiveness

- Central Florida's nationally recognized center for regional economic research and forecasting.
- www.bus.ucf.edu/hitec
- Dr. Sean Snaith
Director

407-823-1453
ssnaith@bus.ucf.edu

UCF Center for Entrepreneurship & Innovation

- CEI serves as the hub for academic entrepreneurship across UCF's colleges and programs.
- www.cei.ucf.edu
- Dr. Cameron Ford
Founding Director
407-823-3683
cei@bus.ucf.edu

UCF Office of Research & Commercialization

- Fosters the creation of intellectual capital that can solve today's pressing problems, improve the quality of life, and provide an engine for economic growth.
- www.research.ucf.edu
- Slide show:
<http://www.floridaresearch.org/clientuploads/UCFONeal4C.pdf?PHPSESSID=9e82cd09b4533418ce2e4c77ac264541>
- Dr. Tom O'neal
Associate VP for Research
407-823-5538
oneal@mail.ucf.edu

UCF Department of Sustainability & Energy Management

- Mission: To obtain energy efficient operation of building systems through education, optimization, and verification while providing professional leadership and fostering sustainable growth.
- <http://www.energy.ucf.edu>
- David Norvell, PE, LEED AP, C.E.M.
Director, and UCF Energy Manager
407-823-0970
dnorvell@mail.ucf.edu

Central Florida Research Park

- Home to over 100 companies and almost 10,000 employees with a university relationship.
- Joe Wallace
Executive Director
407-282-3944
jwallace1@earthlink.net

Disney Entrepreneur Center

- A unique public-private partnership dedicated to the development, growth, and success of small business—bringing together a network of business support organizations and resources into a single facility.
- www.disneyec.com
- Mr. Jerry Ross
Executive Director
407-420-4848
jerry@disneyec.com

Metro Orlando EDC

- The principal economic development organization for Orange, Seminole, Lake, and Osceola counties and the City of Orlando.
- www.orlandoedc.com
- Mr. Ray Gilley
President & CEO
407-422-7159
ray.gilley@orlandoedc.com
- Mr. Mike Bobroff
Executive Vice President & COO
407-422-7159
mike.bobroff@orlandoedc.com
- Ms. Amy Edge Dinsmore
Director, Technology Industry Development/Cleantech
407-422-7159 ext 243
amy.edge@orlandoedc.com

Florida High Tech Corridor Council

- Its mission is to attract, retain, and grow high tech industry and the workforce to support it within a 23-county Florida High tech Corridor. Planar Energy Devices, for example (see examples of cleantech companies above), received a \$50,000 matching industry matching grant for a collaborative research project.
- <http://www.floridahightech.com/>
- Mr. Randy Berridge
President
407-708-4630
randy.berridge@floridahightech.com

AEA (formerly American Electronics Assoc.)

- AeA is a nationwide nonprofit trade association that represents all segments of the technology industry, including cleantech. Its National Green Technology platform provides local as well as international knowledge exchange opportunities and strategies for state and local governments, and political policy recommendations that will further U.S. leadership in global innovation. AeA already has partnered with other communities such as San Diego on their cleantech initiatives.
- Ms. Maryann Fiala
Executive Director, AeA Florida Council
407-882-2425
<http://www.aeanet.org/florida>
http://www.aeanet.org/governmentaffairs/gajl_GreenTech0108.asp
http://www.aeanet.org/Events/txts_green_082708.asp

UCF Solar Energy Center

<http://www.fsec.ucf.edu>

UCF Nanoscience Technology Center

<http://www.nanoscience.ucf.edu/>

UCF Advanced Materials Processing and Analysis Center (AMPAC)

<http://www.ampac.ucf.edu/>

UCF Florida Power Electronics Center

<http://floridapec.engr.ucf.edu/index.asp>

UCF College of Optics and Photonics (CREOL)
<http://www.creol.ucf.edu/>

UCF Institute for Simulation & Training (IST)
<http://www.ist.ucf.edu/>

UCF Center for Advanced Turbines and Energy Research
<http://www.mmae.ucf.edu/Research/CATER/Index.html>

UCF Stormwater Management Academy
<http://www.stormwater.ucf.edu/>

National Center for Simulation
<http://www.simulationinformation.com/cms/>

UCF Stand for Opportunity Website
<http://www.ucfopportunity.com/resources/index.php>

Orange County Division of Environmental Protection
<http://www.orangecountyfl.net/cms/DEPT/CEsvcs/epd/default.htm>

Florida Solar Industries Industry Association
<http://www.flaseia.org/>

Progress Energy Corporation
<http://www.progress-energy.com>
Renewable/Alternative Energy: <http://www.progress-energy.com/environment/ras/index.asp>
Solar: <http://www.progress-energy.com/environment/ras/solar.asp>
Hydrogen Technology: <http://www.progress-energy.com/environment/ras/hydrogen.asp>

Orlando Utilities Corporation
<http://www.ouc.com>
Clean & Green: <http://www.ouc.com/green/default.htm>

Books

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The Necessary Revolution: How Individuals and Organizations are Working Together to Create a Sustainable World (2008), by Peter Senge (author of *The Fifth Discipline*)
http://www.amazon.com/Necessary-Revolution-individuals-organizations-sustainable/dp/038551901X/ref=sr_1_1?ie=UTF8&s=books&qid=1225574127&sr=1-1

The Clean Tech Revolution: Discover the Top Trends, Technologies, and Companies to Watch (2008), by Ron Pernick and Clint Wilder
<http://www.amazon.com/Clean-Tech-Revolution-Technologies-Companies/dp/0060896248>

The World is Flat (paperback 2007), by Thomas L. Friedman
http://www.amazon.com/World-Flat-3-0-History-Twenty-first/dp/0312425074/ref=sr_1_1?ie=UTF8&s=books&qid=1225574156&sr=1-1

Hot, Flat, and Crowded (2008), by Thomas L. Friedman
http://www.amazon.com/Hot-Flat-Crowded-Revolution-America/dp/0374166854/ref=sr_1_1?ie=UTF8&s=books&qid=1225574192&sr=1-1

The Only Sustainable Edge: Why Business Strategy Depends on Productive Friction and Dynamic Specialization (2005), by John Hagel III and John Seely Brown

http://www.amazon.com/Only-Sustainable-Edge-Productive-Specialization/dp/1591397200/ref=sr_1_1?ie=UTF8&s=books&qid=1225574228&sr=1-1

Creating Regional Wealth in the Innovation Economy (2002), by Jeff Saperstein and Dr. Daniel Rouach

http://www.amazon.com/Creating-Regional-Wealth-Innovation-Economy/dp/0130654159/ref=sr_1_1?ie=UTF8&s=books&qid=1225574555&sr=1-1