

California Green Economy Interactive Mapping

Presentation by:
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Environmental Defense Fund

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Introduction to EDF

- National non-profit organization
- Offices in NY, DC, TX, NC, CO, CA
- Sacramento project office opened in 2006 - sponsored AB32
- Have been working on green jobs and green business issues in different facets for several years. Most recently with the Green Jobs Guidebook, “Manufacturing Climate Solutions” and “Less Carbon More Jobs.”

Project Partners:

Environmental
Defense Fund

Ella Baker Center for
Human Rights

Green Jobs Guidebook

Employment Opportunities in the New Clean Economy

SOLAR • WATER • WIND • GREEN BUILDING • ALTERNATIVE FUELS

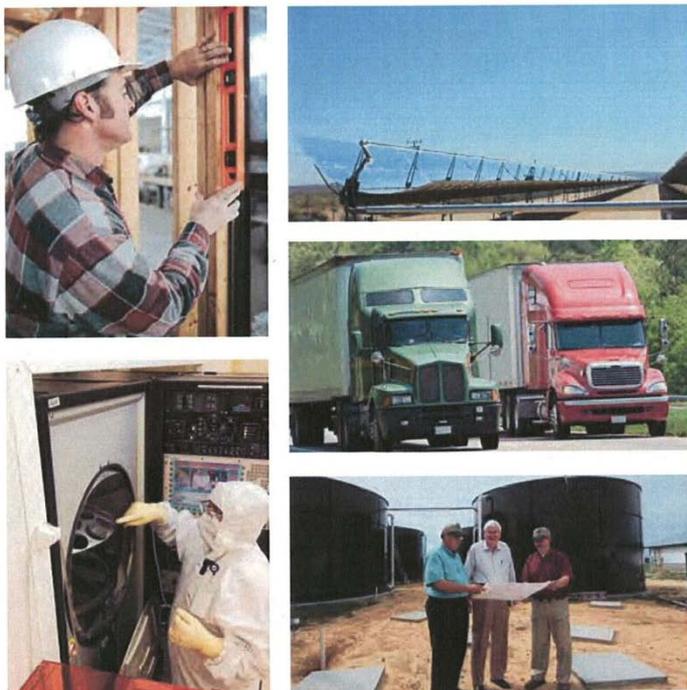


Available for free at :
www.edf.org/cagreenjobs

Green Jobs Guidebook Content

- What green jobs are out there - Over 200 different jobs identified
- How much green jobs earn - Salary information
- Education and experience requirements
- Free job training and placement assistance
- Apprenticeship programs
- Community colleges programs

Manufacturing Climate Solutions



Carbon-Reducing Technologies and U.S. Jobs

by

Gary Gereffi, Kristen Dubay, Marcy Lowe

Center on Globalization, Governance & Competitiveness, Duke University



Project Sponsors:

- Environmental Defense Fund
- Building and Construction Trades Department (AFL-CIO)
- International Brotherhood of Boilermakers
- Industrial Union Council (AFL-CIO)
- United Association of Plumbers and Pipefitters



There are 8,000 parts in a wind turbine

-- Liz Salerno, AWEA

bolts, lubricants, copper wiring, fiberglass housing, ball bearings, turbine blades, concrete & steel foundations and seals, power transmission equipment, printed circuits, motors and generators, measuring devices

For a 44 MW project, with 29 individual wind towers:

- 6,452 tons of steel
- 609 tons of composite fiberglass
- 12,470 tons of concrete

***Project author: Duke University Center on
Globalization, Governance &
Competitiveness***

Value chains for 7 climate solutions ...

LED Lighting

Concentrated (Thermal) Solar

Auxiliary Power Units

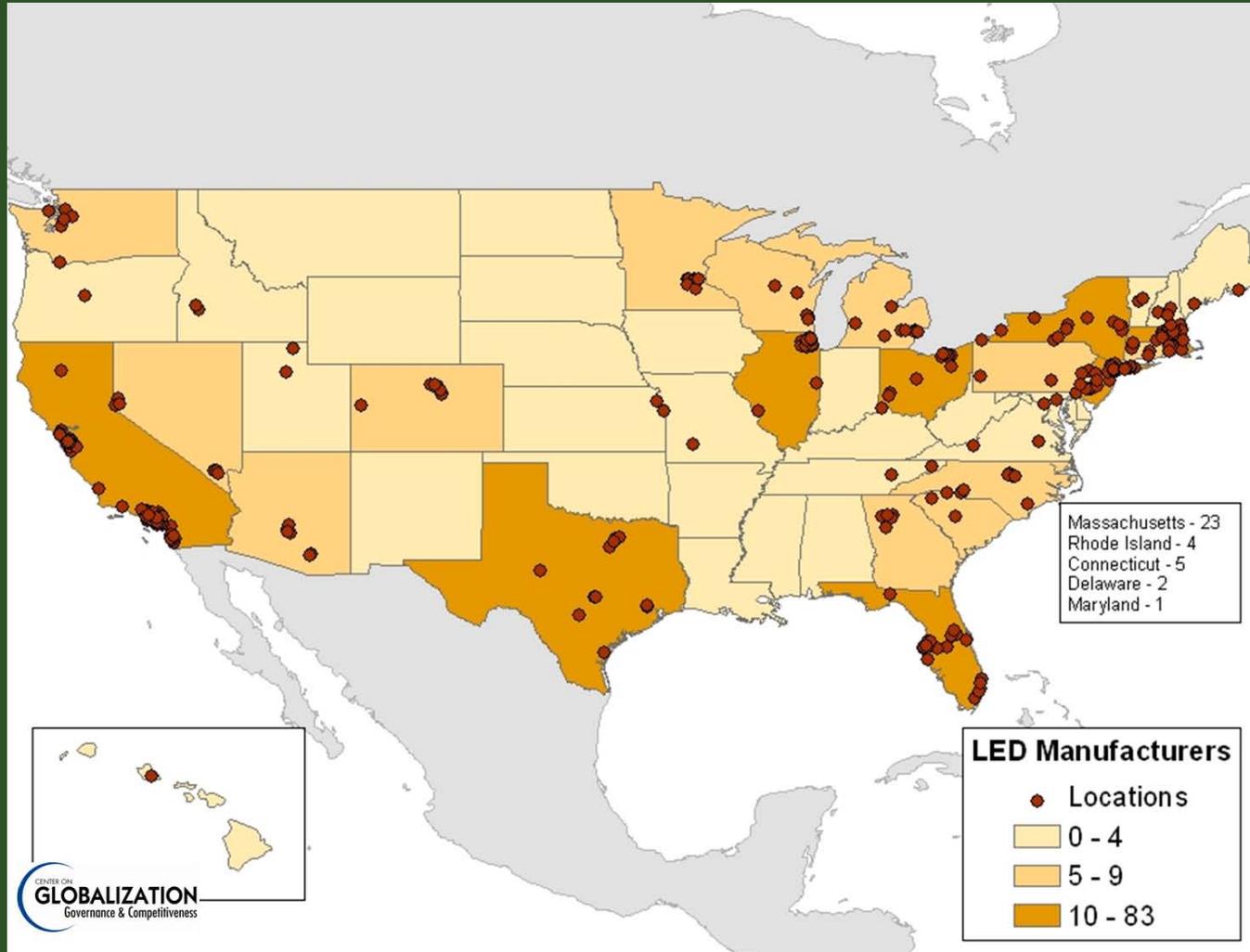
Management of hog waste

High Performance Windows

Waste heat recovery (new)

Electric hot water heat pumps (new)

311 U.S. LED Supplier Firms, 2008



SOURCE: CGGC, based on LEDs Magazine, LED Suppliers Directory 2008

Less Carbon = More Jobs

www.LessCarbonMoreJobs.org

[Our Work](#) » [Global Warming](#) » [Less Carbon, More Jobs](#) » Mapping the Green Economy

Mapping the Green Economy: Pennsylvania

How to Use These Maps

- **Click on  or  for details:** See information about each company. Also, browse our company [case studies](#) and [snapshots](#).
- **Tailor the results:** Select from the menus at right of map.
- **Find a company on the map:** See the list below the map, and click on a company.

Who's missing? [Submit more companies](#) that are part of a green economy.

Manufacturing Climate Solutions

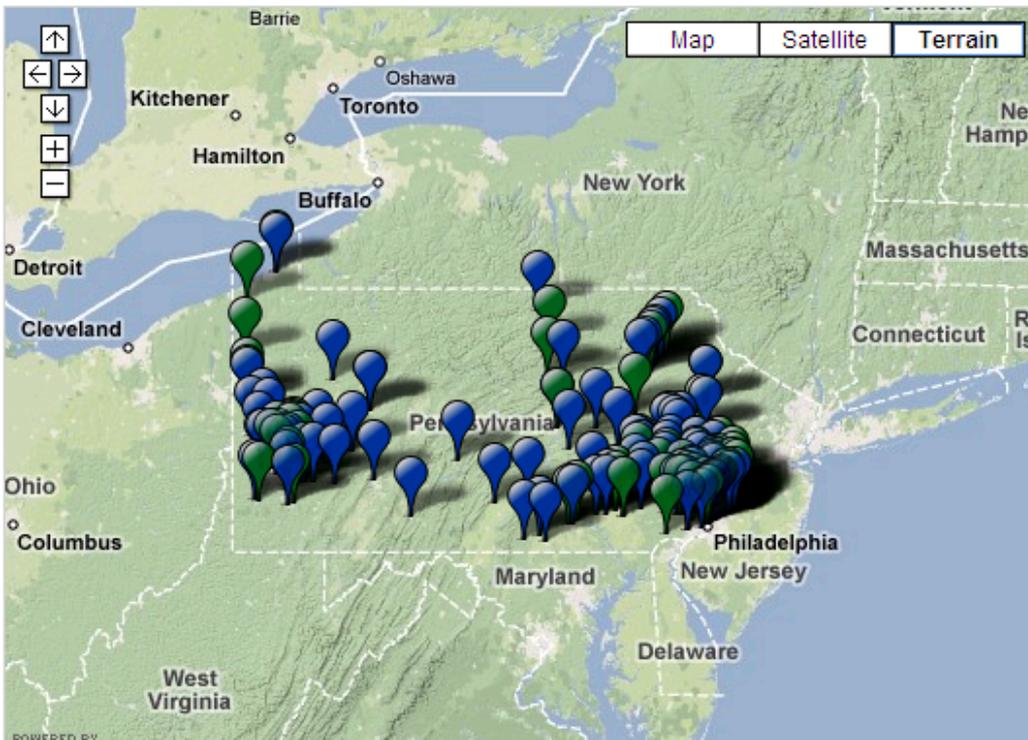
[Our joint report](#) details U.S. jobs linked with low-carbon products and technologies.

Survey Says Green Jobs Are Growing

Market research in December 2008 shows a [positive outlook for a new energy economy \[PDF\]](#).

For Jobs to Grow, Congress Must Act

U.S. companies are waiting for climate legislation. See why [cap and trade will grow and create jobs](#).



Company types

-  Renewable energy
-  Energy efficiency

Filter this map

All Cities

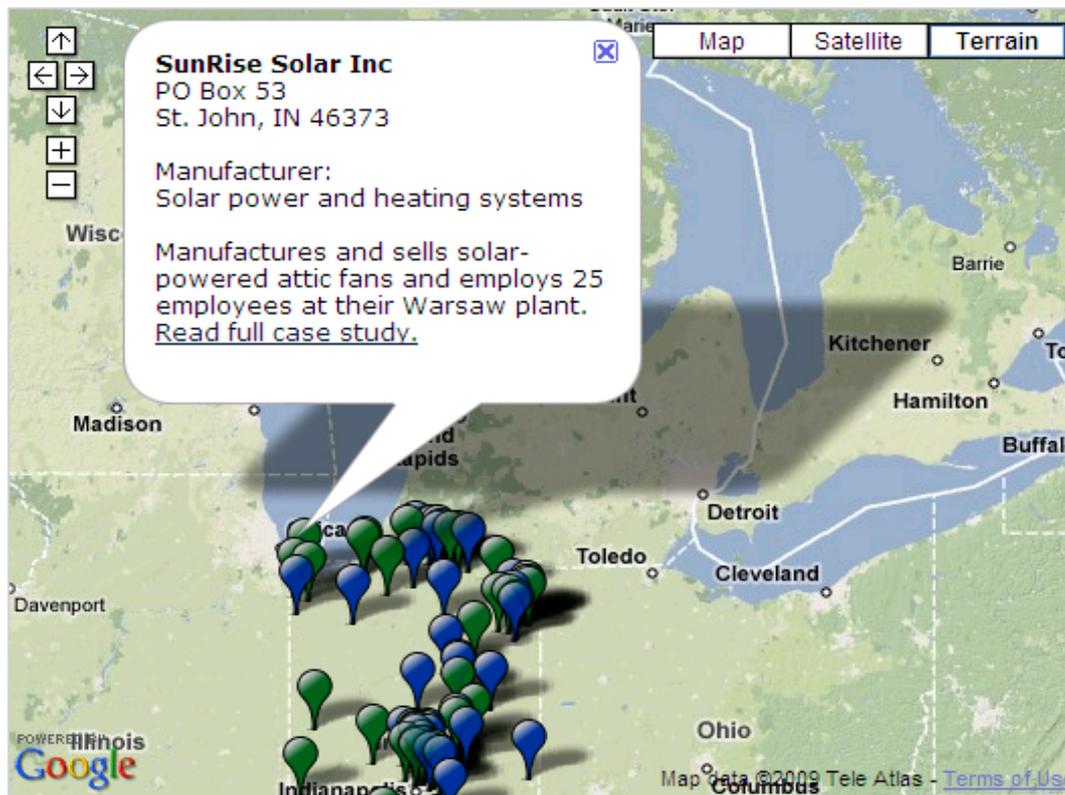
All Districts

All Media Markets

Reset Map

See other states

Pennsylvania



Company types

- Renewable energy
- Energy efficiency

Filter this map

All Cities

All Districts

All Media Markets

Reset Map

See other states

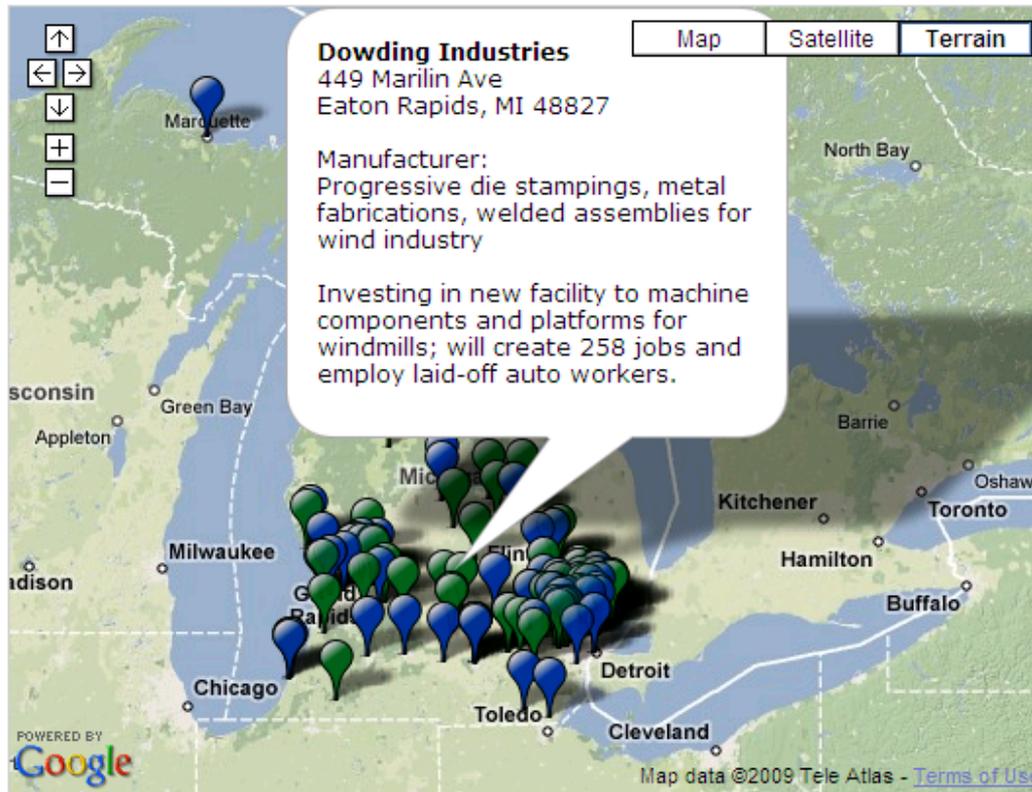
Indiana

Companies on this map

Filter this table by: [Reset Map](#)

Companies in bold contain additional research or case studies.

Company	City	Congressional District	Media Market
Absocold Corporation	Richmond	06 - Mike Pence (R)	Dayton
ACC Climate Control	Elkhart	02 - Joe Donnelly (D)	South Bend - Elkhart
Accutemp Products Inc	Fort Wayne	03 - Mark Edward Souder (R)	Ft. Wayne
ACES Power Marketing LLC	Carmel	05 - Dan Burton (R)	Indianapolis
American Window and Glass	Evansville	08 - Brad Ellsworth (D)	Evansville
Andover Engineering Services LLC	Indianapolis	07 - Julia Carson (D)	Indianapolis
Applied Hydrogen Technologies, Inc.	Bremen	02 - Joe Donnelly (D)	South Bend - Elkhart



Company types

- Renewable energy
- Energy efficiency

Filter this map

All Cities

All Districts

All Media Markets

[Reset Map](#)

See other states

Michigan

Companies on this map

Filter this table by: All Cities All Districts All Media Markets [Reset Map](#)

Companies in bold contain additional research or case studies.

Company	City	Congressional District	Media Market
Access Business Group	Ada	03 - Vern Ehlers (R)	Grand Rapids - Kalmzoo - B. Crk
Acorn Technology	Brighton	08 - Mike J. Rogers (R)	Detroit
ALCO/NVC, Inc.	Detroit	13 - Carolyn Cheeks Kilpatrick (D)	Detroit
Americhip KSI Machining	Clinton Township	12 - Sander Levin (D)	Detroit
Ann Arbor Machine Company LLC	Chelsea	07 - Mark Schauer (D)	Detroit
Applegate Insulation Manufacturing Inc.	Webberville	08 - Mike J. Rogers (R)	Lansing

California Green Economy Map

(Scheduled for Website
Launch May 8, 2009)

- Approximately 2,200 individual businesses listings
- 4 main categories used*
 - Renewable energy generation (1209)
 - Energy efficiency (519)
 - Green buildings (344)
 - Transportation (166)

* Business categories that have experienced widespread growth as California has sought to reduce carbon emissions and improve energy efficiency.

Usefulness of this Tool

- Creating a baseline of the California green economy
- Connecting job seekers to employers
- Connecting businesses to businesses
- Advocacy and outreach
- Others

- Information displayed
 - Company name, address and website
 - Brief business information
 - Congressional district
- Examples of green businesses not displayed
 - Waste management
 - Criteria pollutant emissions reductions
 - Water filtration and purification not involved in water efficiency
 - Advocacy groups
 - Law firms dedicated to environmental issues
 - Others

Sample Los Angeles County maps

Energy Generation:

<http://maps.google.com/maps/ms?ie=UTF8&hl=en&msa=0&msid=106081522672601744176.00046832faa9bc5d2003e&ll=34.268566,-118.254089&spn=1.098572,2.471924&t=p&z=9>

- Efficiency:

<http://maps.google.com/maps/ms?ie=UTF8&hl=en&msa=0&msid=106081522672601744176.00046832c966cc273f249&ll=34.268566,-118.254089&spn=1.098572,2.471924&t=p&z=9>

- Green Buildings:

<http://maps.google.com/maps/ms?ie=UTF8&hl=en&t=p&msa=0&msid=106081522672601744176.00046832e71da89dc92ea&ll=34.220887,-118.259583&spn=1.099194,2.471924&z=9>

Transportation:

<http://maps.google.com/maps/ms?ie=UTF8&hl=en&t=p&msa=0&msid=106081522672601744176.00046832d67f817ba3b89&ll=34.198173,-118.182678&spn=1.099491,2.471924&z=9>