

# Pollution Prevention Information: What's Out There and Where To Find It



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Presentation slides available at <http://hdl.handle.net/2142/35294>





# Ways We Look for Information

- Search
  - When: You're doing research or trying to answer a question
  - Where: Google, Bing, Yahoo, or your favorite search engine or article database
    - Scopus
    - Google Scholar
    - Web of Science
- Scan
  - When: You're trying to keep up with a topic
  - Where: Trusted news sources



Search



# Use Your Time Wisely

- Do a preliminary search
- Use browser add-ons to help you sort through results
  - [Deeper Web](#)
- If you haven't found it relatively quickly, ask an information professional
  - [GLRPPR Help Desk Librarian](#)
  - [P2Rx Rapid Response Service](#) (for those outside of GLRPPR's service area)

# Deeper Web Sample Search – Pollution Prevention

 Metrics Search [hide](#)


[Ecology Services Add Value to Business](#)  
That's what Washington businesses said **Pollution Prevention** Planning has done for them since 2005. That \$45 million saved would pay for 900 jobs ... With Ecology's help, businesses have found ways to eliminate 65 percent of Washington's ...  
[www.ecy.wa.gov](#) - [Cached](#) - [Similar pages](#)

[APPENDIX G POLLUTION PREVENTION](#)  
Department of Energy's **pollution prevention** program, and (2) discussing the ... Divert 33 percent of sanitary waste from all operations for recycling. ... could represent an accumulated savings of over \$1 billion by 2010 and of \$5 billion over the ...  
[www.em.doe.gov](#) - [Cached](#) - [Similar pages](#)

[Recycling Stats | GreenWaste Recovery](#)  
Although the EPA estimates that 75 percent of solid waste is recyclable, only ... Did you know that we generate 21.5 million tons of food residuals annually? ... most common method of plastic waste **pollution prevention**, less than one percent of ...  
[www.greenwaste.com](#) - [Cached](#) - [Similar pages](#)

[FY10 Executive Summary](#)  
total fines and penalties assessed by 85 percent in FY10. • **Pollution Prevention**: DoD's **Pollution Prevention**. Program received \$91.2 million in FY10.  
[www.denix.osd.mil](#) - [Cached](#) - [Similar pages](#)

1 2 3 4 5 6 7 8 9 10 Next

 News Search [hide](#)


[Pennsylvania DEP Awards Energy-Efficiency, Pollution-Prevention Grants to 56 ...](#)  
MarketWatch (press release) - 6 hours ago  
8, 2012 /PRNewswire via COMTEX/ – The Department of Environmental Protection has awarded \$418,049 in grants to help 56 small businesses across Pennsylvania invest in energy-efficiency or **pollution-prevention** projects. "Since 2004, this program has ...

[3M: Sustainability That Sticks?](#)  
What They Think (blog) - 10-31-2012  
We optimized our manufacturing process and initiated the **Pollution Prevention** Pays (3P) program, which prevents pollution at the source through product reformulation, process modification, equipment redesign and recycling and reusing waste materials.

[How California is harnessing P2 to make safer products](#)  
GreenBiz.com (blog) - 10-9-2012  
Twenty-two years ago, the **Pollution Prevention** Act marked a significant change in how U.S. companies manage hazardous waste. Shifting away from an "end of the pipe" approach to controlling chemical hazards, it focused on controlling those hazards at ...

[Pollution, Indirect Cost Rate Info Collection Requirements: Federal](#)  
govWin (blog) - 10-17-2012  
The General Services Administration, NASA and the Department of Defense are asking for an extension of the information collection requirements regarding **pollution prevention** and right-to-know information. Federal Acquisition Regulation clause 52.223-5 ...

1 2 3 4 5 6 7 8 Next

 Resources Search [hide](#)

[Pollution Prevention Research Strategy \(PDF\)](#)  
rationale for, and the intended products of, EPA's **pollution prevention** research. ... track progress toward achieving its **pollution prevention** research goals, as re- ...  
[www.epa.gov](#) - [Cached](#) - [Similar pages](#)

[An Organizational Guide to Pollution Prevention, U.S. EPA](#)  
Martine Dumais, National Office of **Pollution Prevention**, Environment Canada. Art Gillen ... Margaret Nover, **Pollution Prevention** Manager, City of Portland ...  
[www.uml.edu](#) - [Similar pages](#)

[Pollution Prevention Report ARS \\$49-966](#)  
**Pollution prevention** (P2) is an innovative environmental management practice ... In summary, the purpose of the department's **Pollution Prevention** Program is to ...  
[www.azdeq.gov](#) - [Cached](#) - [Similar pages](#)

[An Organizational Guide to Pollution Prevention](#)  
i. 80% Recycled/Recyclable. Printed with vegetable-based ink on paper that contains a minimum of. 50% post-consumer fiber content processed chlorine free ...  
[www.ecy.wa.gov](#) - [Cached](#) - [Similar pages](#)

1 2 3 4 5 6 7 8 9 10 Next

# Deeper Web Sample Search – Pollution Prevention



# Trust But Verify

- Choose your sources carefully
  - Library resources are evaluated before purchase
  - Don't assume that the web has the most recent or accurate information
- Trust but verify
  - Always check to see how current a page is
  - Always look for information about the author of the page



# When to Use What

## Use a search engine

When you're looking for something specific, an unusual term, or an exact phrase

- Use advanced search features to refine your search
  - [http://www.google.com/advanced\\_search](http://www.google.com/advanced_search)
- Read the search engine help pages for new techniques
  - <http://support.google.com/websearch/>

## Use a directory

When you're looking for lots of information on a particular topic

- [GLRPPR Sector Resources](#)
- [P2Rx Topic Hubs](#)
- [P2 InfoHouse](#)



# Some Useful Google Search Tricks

- Site search
  - Use site: to restrict your search to a specific web site
  - Example: “pollution prevention” site:epa.gov
- Exclude a word
  - Add a dash (-) before a word to exclude all results that include that word.
  - Example: “solvent use” printers –computers
- Use Google as your dictionary
  - If you’re looking for a definition, try the define: operator
  - Example: define:biomimicry
- More help from Google
  - Search tips and tricks  
<http://www.google.com/insidesearch/tipstricks/basics.html>
  - Search operators  
<http://support.google.com/websearch/bin/answer.py?hl=en&answer=136861>



# Refining Google Search Results

- Filter your search results by type of content
  - Some options include web, images, maps, videos, news, books, places, blogs, discussions, applications, and patents.
- Other filtering options include:
  - Publish date
  - Personalization
  - Verbatim search
- More help with search
  - From Google  
<http://support.google.com/websearch/bin/answer.py?hl=en&answer=142143&topic=1221265&ctx=topic>
  - From the University of Illinois Library  
<http://uiuc.libguides.com/google>



# Remember Traditional Resources

- Journal literature
  - Your local public, university, or community college library's databases
  - [Google Scholar](#)
- Books and reports
  - Your local public, university, or community college library's online catalog
  - [WorldCat](#)



**WASTE REDUCTION**

**SOURCE REDUCTION**

**CLEANER PRODUCTION**

**POLLUTION PREVENTION**

**WASTE MINIMIZATION**

**CLEAN MANUFACTURING**

**ZERO WASTE**



# Ask

- If you can't find it or don't know where to start, ask:
  - Your local librarian (especially if you have one on site)
  - [GLRPPR Help Desk Librarian](#)
  - [P2Rx Rapid Response Service](#) (for those outside of GLRPPR's service area)
  - Your regional roundtable's e-mail list or P2Tech



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have to be messy



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DOE Pulse - Rese... 8

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Dot Earth 29

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Beautifully-imagined maps show fictional cities and their transit systems

Ian Silva For his day job, Ian Silva drives a commuter train in Sydney, Australia. So maybe it's not surprising that his incredibly detailed maps of imaginary cities also include fully fleshed-out public transit systems. But

Beautifully-imagined maps show fictional cities and their transit systems

Ian Silva For his day job, Ian Silva drives a commuter train in Sydney, Australia. So maybe it's not surprising that his incredibly detailed maps of imaginary cities also include fully fleshed-out public transit systems. But

State Implementation Plans; Revisions: California; Antelope Valley Air Quality Management District and Ventura County Air Pollution Control District

Regulations.gov (U.S. ENVIRONMENTAL PROTECTION AGENCY)

Air Quality State Implementation Plans; Revisions: California; Antelope Valley Air Quality Management District and Ventura County Air Pollution Control District

Regulations.gov (U.S. ENVIRONMENTAL PROTECTION AGENCY)

A Conservative Legal Group Is Petitioning The Energy Department To Rethink The Social Cost Of Carbon

The latest dust-up in the fight over the social cost of carbon (SCC) just arrived via a petition by the conservative Landmark Legal Foundation that challenges the legitimacy of the revised number. As The Hill reports,

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Dot Earth	26
ES&T Online News	23
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Environmental Almanac	2
World Resources	4
NYT > Social Q's	5
Free Government	19
ClimateBiz.com	18
RealClimate	2
News from the National	13

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



Beautifully-imagined maps show fictional cities and their transit systems

an day for his day job, an old owner a computer firm in Sydney, Australia. So maybe it's not surprising that his incredibly detailed maps of imaginary cities and include fully defined out public transit systems. But that's another story.



Beautifully-imagined maps show fictional cities and their transit systems

Let Olive T or his day job. On Olive Trees & Commodities from Sydney Australia. So maybe it's not surprising that his incredibly detailed maps of imaginary cities and intricate fully featured-out urban transit systems. The

State Implementation Plans; Revisions: California;  
Antelope Valley Air Quality Management District and  
Ventura County Air Pollution Control District

Air Quality State Implementation Plans; Revisions;  
California; Antelope Valley Air Quality Management District  
and Ventura County Air Pollution Control District

## A Conservative Legal Group Is Petitioning The Energy Department To Rethink The Social Cost Of Carbon

The latest dust-up in the fight over the social cost of carbon (SCC) just arrived via a petition by the conservative Landmark Legal Foundation, not chairman, the voluntary of the revised number. As The Hill reports, Climate Progress' Joe Jeffers, writes:

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Biodiesel  
biodiesel  
Green Car Congr... 244  
1 more source

Energy-efficiency 157  
"energy efficiency"... 123  
DOE Pulse - Rese... 8  
EERE Network News 6  
U.S. Department o... 20  
3 more sources

Environment 999+  
"flame retardant" ... 32  
brominated flame ... 62  
Climate Progress 160  
Dot Earth 20  
ENN Headline News 151  
ENN Science Indu... 45  
Environmental Alm... 2

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How many: All results

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News Web

**News** 2 new results for "pollution prevention"

**Ships to treat sea pollution deployed on coast**  
Jerusalem Post  
After the Environmental Protection Ministry threatened it would not give its support in the Planning and Building Committee to the establishment of further oil and gas drilling off the coast, the Finance Ministry agreed on the NIS 22m sum for ...  
[See all stories on this topic »](#)

**7 steps to effective energy management**  
GreenBiz.com (blog)  
A cornerstone of sustainability is **pollution prevention**, or P2. Through the effective implementation of P2 and Energy Efficiency (E2) strategies, businesses can incorporate sustainability into day-to-day operations in ways that promote long-term cost ...  
[See all stories on this topic »](#)

**Web** 20 new results for "pollution prevention"

12/06/2012: EPA to Fund **Pollution Prevention** Projects in New ...

**Preview your results here**

<http://www.google.com/alerts>





## Pollution Prevention 101

Tags: environment, environmental compliance, pollution prevention, prairie research institute library, process engineering, sustainability

Resources for pollution prevention (P2) technical assistance providers. Geared particularly toward those new to the P2 field.

Last Updated: Aug 28, 2013

URL: <http://uiuc.libguides.com/p2/>

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### P2 Events

Courtesy of the GLRPPR Events Calendar

- Event: Sustainability Seminar series - Polymer assisted forward osmosis for desalination and water reuse
- Event: GoGreen NYC 2013
- Event: P2 Pioneers Webinar
- Event: Sustainability Seminar series - Recycling of Liquid Crystal Displays for Maximum Resource Recovery
- Event: Chicago Center for Green Technology Green Technology University
- Event: GLRPPR Meeting
- Event: Tying Energy Efficiency to Compensation and Performance Reviews

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### Documents Recently Added to Sector Resources

Documents recently added to the Great Lakes Regional Pollution Prevention Roundtable Sector Resources collection

- Cryptic Barriers to Energy Efficiency
- Act on Climate Change
- Green Sports
- Greening Sports Directory (GSD)
- Collegiate Game Changers
- Campus Carbon Calculator
- AT&T Water
- Ask Nature: The Biomimicry Design Portal
- Endemic Assets and Beliefs

### Introduction

This guide is designed to help pollution prevention technical assistance providers find information quickly and efficiently.

A brief guide to effective web searching is located on the [Where to Start](#) page under the [Sector/Subject Specific](#) tab. Lists of information organization and current awareness tools are included under the [News & Current Awareness](#) tab.

You may also be interested in the slides for the presentation "Pollution Prevention Information: What's Out There and Where to Find It", which is available in [IDEALS](#).

[Comments \(0\)](#)

### Suggest a Resource

If you have a resource or a search tip that we missed, please let us know

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### We Want Your Feedback!

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How useful is this page?  
(1 = Not Useful, 5 = Very Useful)

☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5

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### Subject Guide



Laura L. Barnes



### Contact Info

Prairie Research Institute  
Illinois Sustainable Technology  
Center

One Hazelwood Dr.

Champaign, IL 61821

Campus MC-676

ISTC office phone: (217)

333-8957

Prairie Research Institute Library

desk: (217) 333-6892

[Send Email](#)

### Links:

[Website / Blog](#)

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### Subjects:

Environment, pollution prevention, energy efficiency, waste management, waste reduction, biofuels, recycling, green business, green living, green libraries



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Promoting Pollution Prevention Through Information Exchange

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## 2014 Great Lakes Green Chemistry Conference Call for Papers and Presentations

Posted Tuesday, August 12 on the GLRPPR Blog by Laura B. - [Comment on this post](#)

March 31-April 3, 2014

Wyndham Cleveland, Cleveland, Ohio

- Submissions accepted at <http://www.glrppr.org/conference2014/posters-sidebar.html>
- For more information about the conference, visit <http://www.glrppr.org/conference2013/index-3.html>

The purpose of this conference is to show how innovations in green chemistry drive advances in business, academia, policy, and human health protection in the Great Lakes region, and how integration and collaboration of these areas are crucial for success.

The conference will include keynotes, plenary sessions, panel sessions, breakout sessions, and a poster networking exchange. Submissions should specify a desire for inclusion as either a presentation or a poster. This year, a poster networking exchange session will be offered to enable interactive discussions for research and implementation strategies related to green chemistry. We are inviting posters from anyone involved in research, safer formulations, new product development and implementation, decision-making tools, or technical assistance. Ideally, posters will make a connection between green chemistry expertise and business needs in product development in safer chemistry. Student involvement is encouraged and entries from students are welcome.

The following general topic areas are being proposed for the conference and the final agenda will be chosen, in part, from the areas represented by the topics submitted:

### Business and Green Chemistry

- Efforts that drive green chemistry innovations
- Case studies describing economic and environmental achievements in green chemistry innovation
- Market challenges holding back economic and environmental success
- Ways companies have made the business case for green chemistry

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### EVENT CALENDAR

[Event: Tying Energy Efficiency to Compensation and Performance Reviews](#)

[Event: The Secrets of Sustainable Leadership in Business](#)

[Event: Exploring the Toxic Trends Map Application](#)

[Event: How Our Perceptions of Green Chemistry Will Drive Implementation](#)

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



## Pollution Prevention (P2)

[Recent Activities](#) | [Contact Us](#)Search:  All EPA • OPPT

Go

You are here: [EPA Home](#) > [Chemical Safety & Pollution Prevention](#) > [Pollution Prevention & Toxics](#) > [Pollution Prevention](#)

### Quick Finder

[Priority](#)[Calendar](#)[Design for the Environment](#)[EPA Economy, Energy and Environment](#)[Energy Star](#)[Environmentally Preferable Purchasing](#)[Fed. Electronics Challenge](#)[Green Buildings](#)[Green Chemistry](#)[Green Engineering](#)[Green Products](#)[Green Suppliers Network](#)[Greening Electronics](#)[Greening EPA](#)[Greening Hospitals](#)[Greening Schools](#)[GreenScapes](#)[Measurement](#)[P2 Resource Exchange](#)[P2 Strategic Plan](#)[Pesticide Enviro. Stewardship](#)[P2 Information Clearinghouse](#)[Recycling](#)[Report Violations](#)[Sustainable Futures](#)[Waste Minimization](#)[WaterSense](#)[More](#)

Pollution prevention (P2) is reducing or eliminating waste at the source by modifying production processes, promoting the use of non-toxic or less-toxic substances, implementing conservation techniques, and re-using materials rather than putting them into the waste stream. Since pollution prevention is a key policy in national environmental protection activities EPA has developed a [2010-2014 Pollution Prevention Program Strategic Plan](#). A number of [Partnership Programs](#) and [other EPA initiatives](#) utilize pollution prevention approaches in their work. [Basic information about pollution prevention](#).

[Where You Live](#) - Local and Regional contacts for information and assistance with pollution prevention.

[Grants and Funding](#) - Provides information on matching funds to state and tribal programs to support P2 activities across all environmental media and to develop state programs.

[Laws and Policies](#) - A short explanation with links to more information on the Pollution Prevention Act of 1990 and subsequent policies.

[Partnerships](#) - EPA's efforts to promote sustainable business practices, cleaner technologies and processes and safe products through voluntary partnerships.

[Technical Assistance](#) - Services, case studies and technical assistance to help businesses and state agencies enhance their pollution prevention programs.

[Tools](#) - Databases, case studies, measuring results, and online calculators.

[Publications](#) - Sources for factsheets, case studies, documents, pamphlets and posters on P2. You may request documents from the [Pollution Prevention Information Clearinghouse \(PPIC\)](#).

Our Audiences - [Businesses / Industry](#), [Citizens and Communities](#), [Federal Government](#), [Schools](#), [State and Tribal Governments](#)

### Highlights

**Results from EPA P2 grants and SWAP grants for 2011** now available.

**2012 Pollution Prevention Grant Summaries and Source Reduction Assistance Grant Summaries** are now available online.



**Earth Day.** On Earth Day, EPA reaches out to people of every age, race, and economic status to "own" the environment, to commit to environmental protection as one of your top priorities.

### P2 Blogs





**P2 Really Does Pay:** Pollution Prevention in the Real World [Blog]

**I See No Mountains:** Working together with communities and manufacturers to encourage growth and improved environmental




<http://www.epa.gov/p2/index.htm>





Advancing pollution prevention as a cornerstone of sustainability.

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### New at P2Rx™

- Please take our [Customer Satisfaction Survey](#) to provide us with feedback on our products and services.
- [Behavior Change Webinar Series for Technical Assistance Providers](#)
- [GreenBiz P2 Pathways Column](#) - "Why pollution prevention is free" , by Robert B. Pojasek, Ph.D.
- [Greening Local Government website](#) 
- [Green Lodging Calculator](#) 

### P2 News

- [Federal grants available for water pollution prevention projects in Nevada](#) 
- [India: Hospital goes green, begins phasing out mercury](#) 
- [Sustainable: BlueGreen Alliance trains a green workforce](#) 
- [EPA Expands List of Safer Chemical Ingredients](#) 

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### Business Assistance & Services

A [national directory](#) of environmental technical assistance providers.

[More program search options](#)

### Topic Hubs™

Web-based guides to peer-reviewed pollution prevention information and expertise on a particular subject.

### Featured Video

**Title:** Municipal Energy Champion  
**Source:** Connecticut DEEP  
**Information:** energy efficiency



Municipal Energy Champion




Drilling Wells for Yolland Geothermal Project


0:00 / 3:52

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### Hot Links

- [Measures of Conservation Psychology \(conpsychmeasures\)](#) - June 13, 2013 
- [Agriculture | US EPA \(epa\)](#) - June 06, 2013 
- [Green Weeding - 9/15/2008 - Library Journal \(libraryjournal\)](#) - May 14, 2013 
- [Lynne Cherry \(lynnecherry\)](#) - April 29, 2013 



<http://www.p2rx.org/>



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  - Lean and Environment Workgroup (NPPR)
  - The Greening Sports Directory
  - Tribal P2
  - Sustainable Lodging Network
- Environmental Savings Calculators
- The Social Media Best Practices LibGuide



# Case Studies / Success Stories

- Submit case studies and success stories to your regional P2Rx Center
  - Publish on our websites
  - Promote your activities at workshops
  - Use your company as an example of positive actions companies can take to reduce pollution
- Enter case studies online at ZeroWasteNetwork.org  
<http://www.zerowastenetwork.org/success/addstory.cfm>



# Environmental News Bits

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26 NOV

Daily Archives: November 26, 2012

## Biochar as a Climate Change Mitigation Strategy: Does It Measure Up?

[Download the document.](#)

To avoid the worst consequences of climate change, we need to significantly reduce global warming emissions and if possible remove existing carbon dioxide from the atmosphere.

One proposal for achieving the second objective is to heat biomass — plant and animal materials — in a low-oxygen environment to create charcoal, which is mostly just carbon and is called biochar when produced specifically to help reduce global warming.

This report evaluates the potential of biochar as a climate change solution and reviews the scientific literature to assess current data on biochar's long-term stability in the environment.

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Posted by Laura E. on November 26, 2012 in [Biochar](#), [Climate Change](#) [Leave a comment](#)

## Warming Lakes: Climate Change and Variability Drive Low Water Levels on the Great Lakes

[Read the full story from National Geographic.](#)

For people living around the Great Lakes, water levels this past month have appeared much lower than many will remember. The upper Great Lakes reached near-record low water levels in October. This was most evident on Lakes Michigan and Huron, where lake levels dropped to less than two inches (4 cm) above record lows and 26 inches (71 cm) below the long-term average. All five lakes, plus Lake St. Clair, remain below their long-term averages.

Rock and sand recently exposed by low water levels made stretches of the northern Lake Michigan shoreline look like a moonscape. Recreational boaters had trouble navigating the shallow water this fall, and shipping companies lightened loads to compensate for low water. Lakes Michigan and Huron hovered just above a record low set nearly 50 years ago, and Lake Superior was within five inches (11 cm) of a record low set in 1925.

A 2002 National Geographic magazine story, [Down the Drain: The Incredible Shrinking Great Lakes](#), documents declining lake levels and the potential economic and ecological consequences for the region. Ten years later, the story continues to unfold, as water levels remain lower than normal.

Experts blame the recent low water on the unusually warm and dry weather over the past year. Rain events in October, including Hurricane Sandy, delayed the inevitable, but forecasters predict Lakes Superior, Michigan, and Huron will likely reach historic low levels in the late fall or winter, a time of year that the lakes are normally already dropping due to high rates of evaporation.

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Posted by Laura E. on November 26, 2012 in [Climate Change](#), [Lakes](#) [Leave a comment](#)

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Archive

November 2012

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# Statistics, Data Sets, and Calculators







**Data sets consist of statistics that have been collected, but not analyzed**

258	5,8	160	4,5
276	5,6	165	6,7
278	5,2	174	5,7
280	7,4	198	6,6
282	6,8	212	6,3
310	4,8	241	5,9
334	6,5	255	6,6
345	6,3	267	5,0
354	6,7	401	6,9
406	7,0	415	7,1



**Compiled statistics are data sets have been turned into usable information through analysis**



U.S. Department of Commerce

# United States Census Bureau


People | Business | Geography | Data | Research | Newsroom

## The 2012 Economic Census

The Economic Census is the U.S. Government's official five-year measure of American business and the economy. It is conducted by the U.S. Census Bureau for years ending in '2' and '7'. The Economic Census is the most comprehensive source of information about American businesses from the national to the local level.

[Read More](#)

### YOUR RESPONSE MAKES A DIFFERENCE FOR YOUR COMMUNITY



2012 Economic Census

### U.S. Census Bureau Economic Indicators

New Residential Construction	896,000	▲
July 2013 Report		
Released 8:30 AM EDT, 8/16/13		
Housing starts	5	
Business Inventories	\$1,655.2 B	■
June 2013 Report		
Released 10:00 AM EDT, 8/13/13		
Advance Monthly Retail Sales	\$424.5 B	▲
July 2013 Report		
Released 8:30 AM EDT, 8/13/13		
Monthly Wholesale Inventories	\$499.7 B	▼
June 2013 Report		
Released 10:00 AM EDT, 8/9/13		

[View All](#) \* change not statistically significant  
\* significance not reported /

### QuickFacts

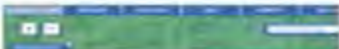
Quick, easy access to facts about people, business, and geography.

To begin, select a state from this list or use the map.

Select a state to begin ▾

### Interactive Map

Use this map to explore Census data through a mashup of population and economic data.



### Census News

#### A Look at State and Local Government Finances, including Public Pensions, Live on C-SPAN's "America by the Numbers" Segment of "Washington Journal"

Thursday, August 08, 2013

Total revenue for state and local governments reached an all-time high of \$3.4 trillion in 2011, up 8.4 ..... [Read More](#)

#### Income and Earnings Estimates for 1st Quarter 2012

Tuesday, August 06, 2013

Using the two most recent waves (11 and 12) from the 2008 Survey of Income and Program Participation ..... [Read More](#)

### We changed our homepage

Tell us what you think

### Stat of the Day

#### Households Maintained By Unmarried

There were 56 million households maintained by unmarried men and women in 2012. These households comprised 46 percent of households nationwide.

[See More](#)

<http://www.census.gov/>


United States Environmental Protection Agency

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## Toxics Release Inventory (TRI) Program

**TRI Home**

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[TRI Data and Tools](#)

[Reporting for Facilities](#)

[TRI Chemicals](#)

[Laws and Rulemakings](#)

[Get Involved in TRI](#)

[Site Map](#)

**You are here:** [EPA Home](#) » [Toxics Release Inventory \(TRI\) Program](#) » [Pollution Prevention \(P2\) and TRI](#)

## Pollution Prevention (P2) and TRI

Under the [Pollution Prevention Act of 1990 \(PPA\)](#), TRI collects information to track industry progress in reducing waste generation and moving towards safer waste management alternatives.

[Launch P2 Search Tool](#)

When providing this information, many facilities choose to describe the measures they have taken to prevent pollution and reduce the amount of toxic chemicals entering the environment. As a result, TRI serves as a tool for identifying effective environmental practices and highlighting pollution prevention successes.

### Access TRI's P2 Data

- Use the [TRI Search](#) to find P2 data for a specific facility
- Use the [P2 Search](#) to view all reported P2 activities for an industry, chemical or state
- Use [TRI.NET](#) for more complex P2 queries
- Download the [2011 P2 Data Tables \(Excel\)](#) (11 pp, 2 MB)

### Other TRI P2 Resources

#### The Waste Management Hierarchy

The PPA calls for pollution to be prevented or reduced at the source whenever feasible and released to the environment only as a last resort.



Learn about these forms:

<http://www.epa.gov/tri/P2/index.html>



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How to Use Envirofacts News and Information Data Update



# Envirofacts

Your one-stop source for Environmental Information

**Get the EnviroFACTS!**

Retrieve information from multiple sources of Envirofacts' System Data for your area of interest.

Enter a location such as address, zip, city, county, waterbody, park name, etc.



[Advanced](#)

**Topic Searches**

- Air
- Land
- Water
- Waste
- Toxics
- Radiation
- Facility
- Compliance
- Other

**Envirofacts System Data Searches**

[Multisystem Search](#)

AFS	ECHO/IDEA	Locational Information	RadNet	TRI
BR	FRS	▪ Locational Search	▪ Customized Search	▪ Customized
Brownfields-Cleanups	▪ EZ Search	PCS	RCRAInfo	▪ Facility Locator Tool
CERCLIS	▪ Organization Search	RADInfo	SDWIS	▪ EZ
Cleanups	GICS		SRS	▪ Form R
	ICR		TSCA	▪ Form R & A Download
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<http://www.epa.gov/envirofw/index.html>





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U.S. carbon dioxide emissions from energy use fell in 2011

**Energy-related carbon dioxide emissions, 1990-2011**



Source: U.S. Energy Information Administration, "U.S. Energy-Related Carbon Dioxide Emissions, 2011," released August 14, 2012.

**ENERGY IN BRIEF ARTICLES**

**What are greenhouse gases and how much are emitted by the United States?**  
Greenhouse gases trap heat from the sun and warm the planet's surface. Of U.S. greenhouse gas emissions, 57% are related to energy consumption. Since 1990, greenhouse gas emissions in the United States have grown by about 1% per year.  
[Read all Energy in Brief articles »](#)

**ENERGY AND THE ENVIRONMENT EXPLAINED**

**Greenhouse Gases' Effect on the Climate**  
Levels of several important greenhouse gases have increased by about 40% since large-scale industrialization began around 150 years ago. During the past 20 years, about three-quarters of human-caused emissions came from burning fossil fuels. Concentrations of carbon dioxide in the atmosphere are naturally regulated by numerous processes collectively known as the "carbon cycle."  
**Where Greenhouse Gases Come From**  
In the United States, greenhouse gas emissions come primarily from the burning of fossil fuels in energy use. Energy use is largely driven by economic growth with short-term fluctuations in its growth rate created by weather patterns affecting heating and cooling needs. Energy use is also driven by changes in the fuel used in electricity generation.  
[See more energy and the environment topics »](#)

**FEATURES**

**U.S. Energy-Related Carbon Dioxide Emissions, 2011**  
Released August 14, 2012  
This online analysis of 2011 energy-related carbon dioxide emissions indicates U.S. carbon dioxide emissions from the consumption of fossil fuels were 5,471 million metric tons carbon dioxide (MMT CO2) in 2011, a decrease of 2.4 percent from the 2010 level.

**Short-Term Energy Outlook**  
Released November 6, 2012 | First Release: December 11, 2012  
Includes projections for energy-related carbon dioxide emissions through 2035.

**Annual Energy Outlook 2012 Cover**  
The projections in the *Annual Energy Outlook 2012* focus on the factors that shape the U.S. energy system over the long term. Includes includes U.S. emissions projections for carbon dioxide, sulfur dioxide, and nitrogen oxide through 2035.

**Annual Energy Outlook 2012**  
Released June 28, 2012

**What's New in Environment**

[U.S. Energy-Related Carbon Dioxide Emissions, 2011](#)  
August 14, 2012

[U.S. Energy-Related CO2 emissions: Nearly 2012 trend stays flat](#)  
August 1, 2012

[What are greenhouse gases and how much are emitted by the United States?](#)  
June 21, 2012

[See all new releases in EIS »](#)

[See Today in Energy articles on the environment »](#)

**What is the Voluntary Reporting Program?**

  
[See more »](#)

**Q: How much CO2 does the United States emit? Is it more than other countries?**  
[See the environment FAQs »](#)



<http://www.eia.doe.gov/environment>

# Advanced Manufacturing Office

Advanced Manufacturing Office

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## Manufacturing Energy and Carbon Footprints

Energy and Carbon Footprints provide a mapping of energy from supply to end use in manufacturing. They show us where energy is used and lost—and where greenhouse gases (GHGs) are emitted. Footprints are available below for 15 manufacturing sectors (representing 94% of all manufacturing energy use) and for U.S. manufacturing as a whole.

### Manufacturing Energy and Carbon Footprints

- [All Manufacturing](#)
- [Alumina and Aluminum](#)
- [Cement](#)
- [Chemicals](#)
- [Computers, Electronics and Electrical Equipment](#)
- [Fabricated Metals](#)
- [Food and Beverage](#)
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- [Glass](#)
- [Iron and Steel](#)
- [Machinery](#)
- [Petroleum Refining](#)
- [Plastics](#)
- [Textiles](#)
- [Transportation Equipment](#)

Each footprint visualizes the flow of energy (in the form of fuel, electricity or steam) to major end uses in manufacturing, including boilers, power generators, process heaters, process coolers, machine-driven equipment, facility HVAC, and lighting. The footprints present data at two levels of detail. The first page provides a high-level view of supply and end use, while the second page shows details of how energy is distributed to onsite end uses. The analysis is based on EIA's 2006 [Manufacturing Energy Consumption Survey](#) (MECS) data (the latest year for which complete MECS data is available) and input from industry and subject matter experts.

Footprints show aggregate data for each sector, including:

- Electricity and steam generated offsite and transferred to the facility, as well as electricity and steam generated onsite
- Fuel, electricity, and steam consumed by major end uses in a manufacturing facility

## Learn More About Energy and Carbon Footprints



### [Understanding Energy and Carbon Footprints](#)

Learn how to read the footprints and understand energy use and carbon emissions in your industry sector.

### [Scope of Footprints](#)

Details of the industry sectors included by NAICS code.

### [Definitions and Assumptions](#)

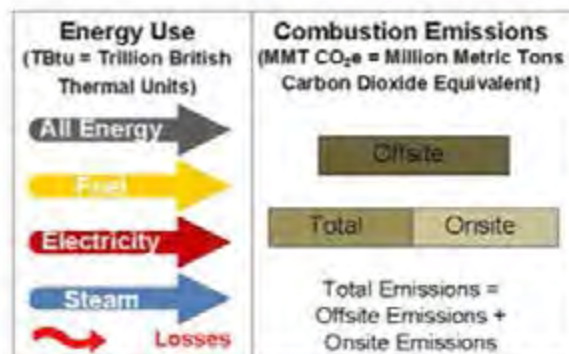
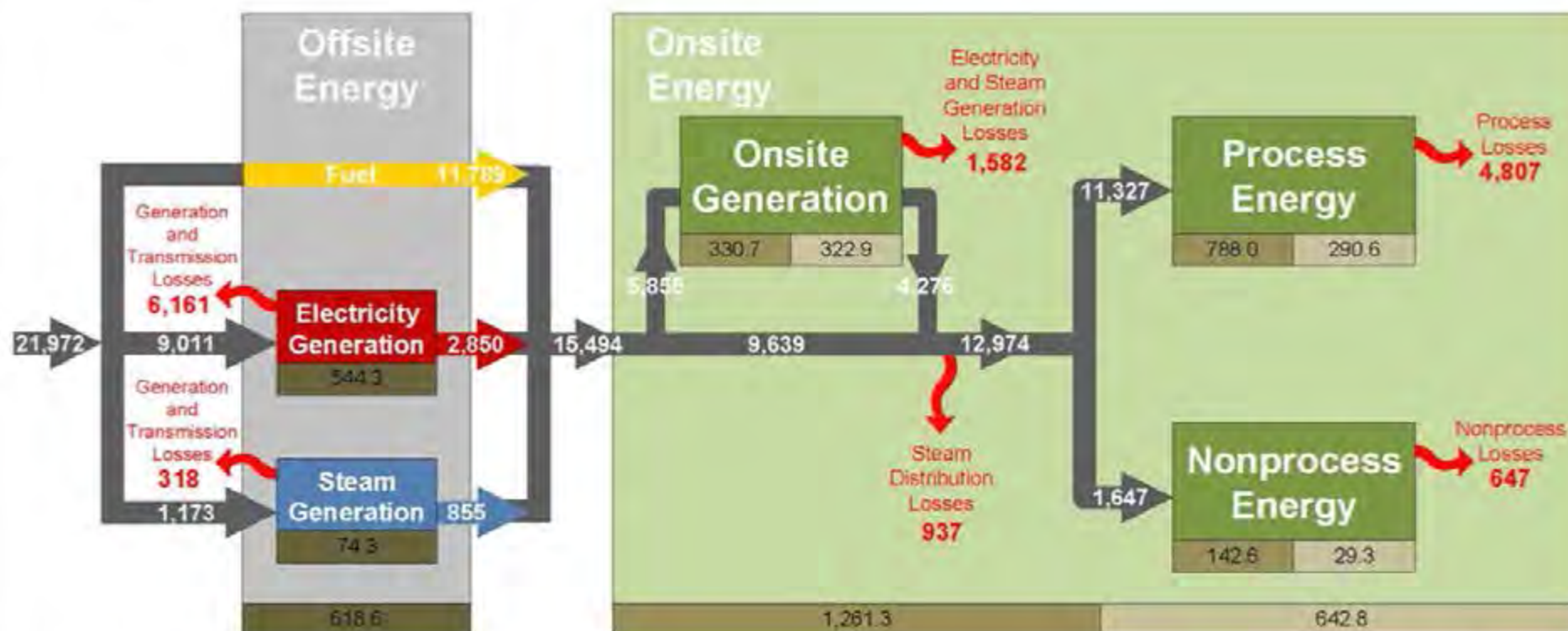
A glossary of footprint terms and a listing of the footprint assumptions. Footprint assumptions include generation and end use equipment efficiencies, cogeneration efficiencies, process heating losses, steam distribution to end uses, and fuel combustion emission factors.

# Manufacturing Energy and Carbon Footprint

Sector: All Manufacturing (NAICS 31-33)

Total Primary Energy Use: 21,972 TBtu  
Total Combustion Emissions: 1,261 MMT CO<sub>2</sub>e

## Total Energy



67 Electricity Export

Energy use data source: 2006 MECS (with adjustments)  
Last Revised: October 2012  
Notes: Feedstock energy not included  
Energy values <0.5 TBtu shown as 0  
Values represent aggregate data  
Offsite generation shown on net basis

# Manufacturing Energy and Carbon Footprint

## Sector: All Manufacturing (NAICS 31-33)

Onsite Energy Use: 15,494 TBtu  
Onsite Combustion Emissions: 643 MMT CO<sub>2</sub>e

### Onsite Energy

### Onsite Generation

#### Conventional Boilers

122.8 114.9

#### CHP/ Cogeneration

206.0 206.0

#### Other Electricity Generation\*

1.9 1.9

Steam Generation Losses 1,355

Electricity Generation Losses 227

1.715

473

2,117

15

44

330.7 322.9

41

5,975

2,850

2,809

3,253

855

4,687

937

Steam Distribution Losses

### Process Energy

#### Process Heating

376.2 261.3

#### Process Cooling and Refrigeration

43.3 1.9

#### Other Process Uses

25.4 11.2

#### Electro-Chemical

39.3 0.0

#### Machine Drive

303.7 16.2

#### Machine-Driven Systems

627

346

399

308

569

109

788.0 290.6

2,969

129

53

155

496

1,005

67

Electricity Export

### Nonprocess Energy

#### Facility HVAC

81.0 22.3

#### Facility Lighting

37.8 0.0

#### Other Facility Support

13.3 1.8

#### Onsite Transportation

5.6 4.2

#### Other Nonprocess

5.0 1.0

142.6 29.3

389

192

10

41

15

67

Electricity Export

Fuel Type	% of Total
Natural Gas	47%
Byproduct Fuels	37%
Coal	9%
Distillate and Residual Fuel Oils	3%
LPG and NGL	1%
Other Fuels	4%

Fuel Types

15,494

2,850

855

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Steam Distribution Losses

67

Electricity Export

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Steam Distribution Losses

67



Electricity Export

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2,850

855

2,809

Advancing pollution prevention as a cornerstone of sustainability.

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### National P2 Results Data System

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### All Projects Highlights

View: [Grant-funded only](#) | [Non grant-funded only](#) | [Both](#)

**Air Emissions (includes mobile sources)** [\(Definition\)](#)  
**1,374,159,073 Pounds**

**Energy** [\(Definition\)](#)  
 3,532,557 Tons  
 5,121,067,702 Kilowatt hours  
 161,304,866 Therms  
 54,291,944 Miles  
 19,540,148 Gallons  
 500,385,415 Kilowatt Hour Equivalent

**Green Energy** [\(Definition\)](#)  
 22,973,940 Gallons  
 143,568,122 Kilowatt hours

**Greenhouse Gases** [\(Definition\)](#)  
 35,499,245,724 Pounds

**Hazardous Materials** [\(Definition\)](#)  
 23,494,680,270 Pounds

**Hazardous Wastes** [\(Definition\)](#)  
 37,821,517,829 Pounds

**Non Hazardous Materials** [\(Definition\)](#)  
 975,075,233 Pounds

**Solid Waste** [\(Definition\)](#)  
 9,126,432,759 Pounds

**Water Pollution (includes point sources, nonpoint sources, and stormwater)** [\(Definition\)](#)  
 116,010,122 Pounds

**Water Use** [\(Definition\)](#)  
 30,110,694,357 Gallons

**Total Reduced Operating Costs**  
**\$98,182,536,350.80**

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<http://www.p2rx.org/measurement/>

# **P2 Measurement & Calculators**

# P2 Greenhouse Gas Calculator

- Developed to assist the P2 community with reporting EPA's outcome measures
  - Pounds of pollutants reduced
  - Gallons of water saved
  - Dollars saved through adoption of P2 practices
- Used to calculate changes in GHG emissions from P2 projects
- Converts activity values entered (e.g. kWh saved, gallons of water reduced) to CO<sub>2</sub> equivalents
- Aggregates GHG reductions from individual projects and categories
- Provides data transparency through references and justification
- Provides calculations for:
  - Electricity conservation
  - Green energy
  - Stationary and mobile source fuel reduction/substitution
  - Green chemistry
  - Water conservation
  - Materials management (module under construction)

# P2 Cost Calculator

- Calculates financial savings in dollars from implementing specific P2 activities
  - Hazardous inputs and wastes
  - Air emissions
  - Water pollution
  - Water use
  - Energy
  - Electricity
  - Non-hazardous inputs and solid waste



# Where to Get the Calculators


- EPA's Measuring P2 Web Site  
<http://www.epa.gov/p2/pubs/resources/measurement.html#calc>
- NPPR's P2 Measurement Tools  
<http://www.p2.org/general-resources/p2-data-calculators/>
- Other calculators and software tools available at <http://uiuc.libguides.com/p2/tools>




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\* p2tagteam

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☐ Make Private

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☐ Add Tag

☐ Rename Tag

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November 15, 2012

☐ [Petroleum and Emission Reduction Planning Tool](#)  
1 save <http://www.afdc.energy.gov/prep/>  

This planning tool helps your vehicle fleet reduce petroleum consumption and greenhouse gas (GHG) emissions. Create a comprehensive plan for your fleet by using several savings methods. If your fleet includes multiple vehicle types, add more vehicles to each method.

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January 10, 2012



**tsmom1219**  
**Laura Barnes**  
Joined 25 Oct 2007  
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233  
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118  
books



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