

## **Creating a Worcester Green Pages**

**Research Conducted for the Institute for Energy & Sustainability**

**In Conjunction with MGMT 5505 Clark University**

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## **Introduction**

The Institute for Energy and Sustainability recommended to researchers at Clark University, MGMT 5505 that it had identified an immediate need within the community; to grow a platform where local environmental organizations have a forum and online resource for free exchange of ideas, information, announcements, wants, needs, goals, and opportunities. To develop this community wide platform and in response to numerous requests from the community, the Institute for Energy and Sustainability (IES) will be developing a regional green pages, completing with information on the various activities and opportunities within the clean energy and sustainability sector happening throughout the city of Worcester and the greater region of central Massachusetts.

## **Institute for Energy & Sustainability: An Overview:**

IES is a strategic partnership that creates a platform of support and range of services for start-up and entrepreneurs in the clean technology and sustainability sectors. This partnership emerged from the long standing relationships between WPI, Clark University, and Congressman Jim McGovern's office. Through the collaboration with the two Universities, as well as the diverse and distinguished range of expertise from the steering committee, has positioned the Institute very strongly to develop its mission of "reviving main south through creation of a green business zone and building the green economy."

The IES, formed in May 2009 and funded through an initial grant from the Massachusetts Clean Energy Center, has recently hired former Assistant Secretary of the Department of Energy and managing partner for Bowditch & Dewey, Vincent DeVito, to support the first phases of the work of the Institute. Mr. DeVito, in his capacity as Executive Director, will direct the IES' day-to-day operations, including: organizing its infrastructure, establishing partnerships, securing grants and funding to sustain and enhance the Institute's programs, and assembling an advisory board that represents corporations, government, citizens' groups, and universities.

The IES has three strategic priorities: supporting the development and creation of clean energy technology and sustainability businesses and organizations, promoting enhanced clean energy innovation, science and research, and assisting in developing energy management tools and services within the region.

The organizational goal for the Worcester green pages is to create a web-assisted tool that will increase the number of activities, participants and city-wide communication. The long term goal is to use this work as a tool to help create a sustainable city. Creating a sustainable city is an important objective because competing issues of climate change, resource depletion and raising instability of fossil fuels require that city planners create urban and suburban centers that are able to be independent, with a local, self-sufficient economy that does not seriously degrade the environment.

### **The Worcester Green Pages**

The objectives for this project are to build upon the relations already established among the City's and build a collaborative project, so that all stakeholders contribute and have a stake in the final product. The second objective is to conduct interviews with them for the development of profile pages that can be listed on this website. Another objective is to inventory all the various services and options available to a homeowner for making more environmentally friendly choices and collating that data in a fun and easy to read manner. The final objective is to build the website and add a social networking component, creating an urban sustainable wiki page, where individuals and groups can actively edit content and provide updates for the latest event or pressing issue. This would also establish a forum for the exchange of ideas, discussion and question and answer.

The most exciting programs created from the Worcester Green Pages will be the direction and creativity that the users create. The platform, listing of all things green in the city, will provide the impetus for users to educate themselves and discuss critically important issues, learn about the services and opportunities for greening a home or business, rally around issues they are passionate about, and network with groups and individuals across the spectrum of beliefs,

education and expertise. By providing this program we are able to make strides in showcasing the amount and diversity of environmental and climate programs in the city, an attractive feature for creating a green business zone through incubation of new companies through the Institute. It is also useful because it will identify gaps in the city's overall environmental services and translate into an opportunity to close those gaps.

This website includes a profile of local environmental groups. This list includes over 40 organizations, ranging from government and regulatory agencies, to non-profits and for-profits, to a grassroots organizations and groups of citizen volunteers. After completing interviews, the created profiles will be uploaded on the website. The information included will consist of company contact information, company programmatic and service areas, collaborations, future goals, needs and uses for the website. It will be separated by how the service is set up, whether it is for products and services, residential users, commercial users, government services, or non-profits and grassroots organizations. Separating different services in this way allow for users to easily navigate to the desired information and subsequent results.

In a recent survey of environmental groups in the city, over half of the respondents, answered that the best use for a greenpages was through networking and cross-promotion of activities. A greenpages will also prove useful to individuals and groups that are not specifically "in the fold" of environmental groups. This is another critical need. If we are to be successful in creating "a sustainable city" as was the stated goal of numerous stakeholders, then we must find a way to reach the average household.

## **Methodology**

The methodology for building this website includes relying on the MGMT 5505 to assist in collecting and preparing the results of the survey. The management class was significantly important to this project because it provided the research on the initial list of organizations to be included on the site, it was also important because, teaming up with IES interns, the class was able to conduct interviews in order to create profile pages for the website. After numerous

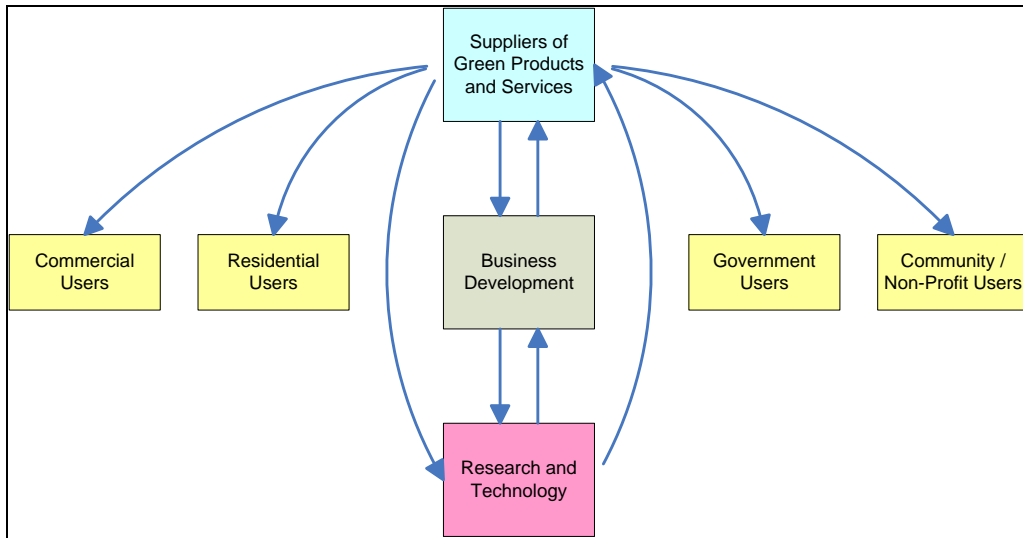
discussions and meetings, a list of questions was developed and used as the basis for a profile page on each organization in the city.

Graduate students in MGMT 5505 were also instrumental in gathering data for each section and related information used throughout the webpages. Sections on government services, residential and commercial users, products and services, and non-profit and community groups were developed by graduate students. These pages are most valuable because they provide the basis of the website. Many websites list services and the Worcester Green Pages will be unique among these because it will contain site-specific information, information that is not easily accessible anywhere else.

Each section within the website was researched by a combination of internet research, interviews with local stakeholders, and using information posted on similar sites. Among different sections, select interviews were conducted to ensure that information was accurate and tailored to meet the specific design of the Worcester Green Pages. Although the website will be contracted, the most important aspect of this project, relationship building and outreach to local environmental organizations, is represented by the work conducted by the MGMT class.

## **Findings**

The Institute works in harmony with several different types of organizations. These organizations can be broken down into several categories including Suppliers of Green Products and Services, Business Development, Research and Technology, and Users (Residential, Commercial, Government, Community / Non-Profit) of products and services as Figure 1 Shown.



**Figure 1: Organizational breakdown of sectors researched**

In each category, key organizations were selected and added to the knowledge base. Each category is different in its products, services, or needs, so unique information was collected for each category. Comprehensive data can be found in the Appendices.

**Suppliers of products**

The greater Worcester area is already home to a large number of suppliers of green products and services. The Institute reached out to many of them with the goal of forming long term contacts, and linking the suppliers’ products or services with potential users.

A standard survey template was used to gather important data. Basic data included company name, address, and contact information, owner, company structure and number of employees. More detailed information was collected regarding the company’s products, mission and goals, needs, and future growth plans. Additionally, each organization was asked if they would like their information shared with others as a collaboration tool through the Institute. The standard survey template is shown in Table 1.

**Table 1 - Standard Survey Questions**

No.	Questions	Responses	Notes
1	Name of Organization		
2	Location		
3	Contact information		
4	Executive Director		
5	Organization status and structure (board of directors, 501c, etc)		

<b>6</b>	Organization mission
<b>7</b>	Website
<b>8</b>	Demographic region/customers served
<b>9</b>	What are your organization's goals & vision?
<b>10</b>	Please briefly describe three recent or past projects and associated timelines
<b>11</b>	What business' or organizations do you collaborate with?
<b>12</b>	How many members do you have?
<b>13</b>	What is your business' projected growth in the next year?
<b>14</b>	What are your organization's needs?
<b>15</b>	Can you provide a quote & photograph of the organization (can email photo to ashtrull@gmail.com)
<b>16</b>	How would you like to see the inventory website used?
<b>17</b>	Are you willing to be contacted? Are you willing to provide business/services to other businesses?
<b>18</b>	Is there anything else you would like to have included?

**Users of products and services**

Residential users are key players in promoting environmentally sustainable solutions and achieving targets of energy conservation. According to the Energy Information Administration latest released data, about 37% of total U.S. electricity was consumed by the residential sectors in the year 2008 (IEA, 2009). It ranked the third in total U.S. national energy consumption sectors just behind the consumptions of industrial and transportation ones. Among the energy consumption by residential users, 32% was for space heating, 13% for water heating, 12% for lighting, 11% for air conditioning, 8% for refrigeration, 5% for electronics, and 5% for wet-clean (mostly clothes dryers) in 2007.

At the same time, the energy-related carbon dioxide emissions by residential sectors reached 1,250 million metric tons in 2007 which accounted for about 20.8% of U.S. total carbon dioxide emissions for energy consumption. Hence, improving the energy consumption efficiency is one of the most important aspects for residential users interested in sustainability. Efforts should also be made in the energy consumption sector, the water resources conservation and waste recycle, other themes for residential users to go green.

According to the U.S. Census Bureau data, Worcester area has population of 783,806 in 2008, and total households number was 283,927 in 2000(CB, 2009). This part of research focuses on collecting and providing the information which is the useful references for residential users to be energy conservative and environmental friendly.

The information from governmental environmental protection departments is a reliable source for residential users to get access to data, regulations and programs about environmental issues. The website of Massachusetts Department of Environmental Protection is a good example of this. It offers a wide range of services and information necessary for residents interested in environmental information. This includes useful information, services and assistances about air quality, beach testing, drinking water quality, environmental health, hazardous materials, emergencies, recycling and natural resources, and regulations, compliance and enforcement, and sewer issues.

The other two good examples for state level environmental information sources are the websites of Massachusetts Executive Office of Energy and Environmental Affairs and Massachusetts Department of Energy Resources. The websites detailed information is listed in the appendix. As in the local level, the Energy Task Force on the Worcester City website is the good source for local residents to know the city's actions on the energy conservation and climate change issues.

Energy efficient choices can save families about a third on their energy bill with similar savings of greenhouse gas emissions. To reduce the home energy consumption energy audits to assess the home's energy use and to learn about achieving energy efficient are important. This inventory provides the local energy audit agencies which can offer the energy auditing servicing for home owners. A home energy audit is the first step to assess home energy consumption and to evaluate the feasible measures to accomplish home energy efficiency.

There are mainly three approaches can lead to the energy efficiency and carbon reduction. The first one is using energy efficient appliances and electronics. Appliances and home electronics are responsible for about 20% of energy bills in a typical U.S. home. These appliances and electronics include clothes washers and dryers, computers, dishwashers, home



audio equipment, refrigerator and freezers, room air conditioners, televisions, DVD players, and VCRs, and water heaters. The most direct solution is to purchase new ENERGY STAR-qualified appliances with rebates. The second one is home improvement by applying the proper insulation and air sealing techniques, more energy conservative space heating and cooling systems, and incorporating energy-efficient lighting and day lighting strategies into home. The third approach is reducing electricity use and carbon footprint by purchasing clean electricity or using a small renewable energy system which can help home to lower electricity costs, achieve energy independence, and reduce pollution.

The information of purchasing ENERGY STAR-qualified appliances in Worcester Area is provided in the Inventory. At the same time, the Worcester local green home builders and installers of the small scale renewable energy for home are listed in the Inventory. Home waste recycle could include reducing the waste, reusing the products, buying the recyclable products, and recycle wastes. The DPW&P's Trash & Recycling Division is in charge of disposing of residential solid waste efficiently and economically. In addition, in the Worcester Area, the recycling bins are collected every week regularly. Citizens of Worcester can dispose of household waste via Yellow Trash Bag program. Water consumption conservation is another important aspect of environmental sustainability. The Green Pages provides information about water-efficient Appliances and water conservation tips.

Green transport means the sustainable transport with low impact to the environment which is represented by the forms of bicycling and low-carbon fueled and renewable energy powered vehicles. Most common form of green transport is hybrid vehicles. Hybrid vehicles use regular internal combustion engine combined with an electric engine.

### **Business Development**

There are many important organizations within Worcester and Massachusetts that exist to help businesses form, grow, and prosper. These organizations include government bodies such as the City of Worcester Economic Development Office, academic based groups such as Clark University's Central Massachusetts Small Business Development Center, and groups that specifically promote the growth of green business such as the New England Clean Energy

Council. Any existing or start up business could benefit tremendously from these resources, and most of them are locally based with a desire to see the industrial and commercial success of Worcester.

There are several government agencies listed on the local, state, and national level. In all cases they deal with the legal aspects of business. The US Chamber of Commerce sets policy on a national level, particularly with interstate and international trade. The Commonwealth of Massachusetts sets its own business laws that must be understood and followed. The city of Worcester's Economic Development Division offers assistance to local businesses in understanding business laws and assisting with grants when possible.

Several business networking groups were investigated, some being driven through academic institutions. WPI's Venture Forum and Clark University's Central Massachusetts Small Business Development Center are two local academic based groups dedicated to the development of small business in Worcester. SCORE is a nationwide non-profit group that is also dedicated to the growth of small business. Each group offers its members access to resources such as industry contacts and knowledge that can be useful when establishing a business.

There were several groups specifically focused on the growth and success of green based businesses. Massachusetts Clean Energy Center, New England Clean Energy Council, Massachusetts Technology Collaborative Renewable Energy Trust, Northeast Sustainable Energy Association, Solar Energy Business Association of New England, and Northeast Energy Efficiency Partnerships all offer tools and resources that are tailored for green businesses in specific areas such as clean energy or energy efficiency.

Standard data was collected from each organization. Data included the organization's name, website, mission, and a brief summary of its services. Data was collected via the internet and full details can be found in the Appendix.

### **Research and Education**

There are 12 public and private accredited colleges and universities located in the Greater Worcester Area. The environmental departments, organizations and initiatives in those universities are important initiatives to promote and support the development of the Greater Worcester's environmental sustainability and energy innovation.

This Green Pages surveyed and collected 7 colleges and universities. These are; Assumption College, Clark University, College of the Holy Cross, Quinsigamond Community College, UMASS Medical School, Worcester State College, and Worcester Polytechnic Institute (WPI). The departments, student organizations, and university level sustainability task force and initiatives are three main channels for them to be involved in environmental affairs. In the survey, the emphasis is on finding the goals of organizations, finding their past and ongoing projects, and their collaboration with other business partners. At the same time, their opinions about the form of utilizing the Green Pages information were also included in the survey.

The academic departments are playing important roles on the college and university's efforts on the environmentally sustainable development. Besides providing environmental disciplinary education, the projects under-taken by the department faculty are also closely related and contribute to sustainable development. As an example, Clark's Department of International Development, Community, and Environment has a mission dedicating students and faculties to environmental sustainability, social justice, and economic well-being. Another important contributor, noted in the Appendix is the number and work of College faculty and student environmental clubs and research groups.

The Green Pages would be useful for people who want to know academia roles and influences on the communities' environmental sustainability advancement, look for the environmental education opportunities, and seek the technological and commercial collaboration potentials.

### **Conclusion:**

Along with establishing the database, the IES website construction should be the core step of making further efforts on this project. Building the website with user-friendly, explicit,

elegant, and professional interface would be the most feasible and efficient way to make resources easily accessible to most of the users. One good reference of website design is the website of Massachusetts Government with categories of “For Residents”, “For Businesses”, “For Visitors”, and “For Government” (MassGov, 2009). Under each category, the more detailed relevant information is provided in the form of sub-categories. This design of website page makes the targeted information is easily to be located. For building the database and website, the involvement of professionals with skills of database development and computer programming is required.

This project is a direct fit with the mission and goals of the IES because it harmonizes a variety of different organizations and unites them. This unification is not a total coalescence of groups, yet serves to connect loose ends and strengthen uncoordinated parts of the working whole. Each group would retain and be encouraged to retain its autonomy, and a greenpages would actually contain the ability to feature the diversity of our groups and their missions. The IES, with three core strategic priorities; jobs, science, and energy management, sees the overarching results that could be accomplished through the green pages and believes that such a creation would in fact enhance the city’s ability to attract and create green jobs, advance and promote science, and increase the efficiency and delivery of energy efficiency services.

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\* Personal Interviews and internet listing provided first hand data, as documented in the Appendix

\*\* Special thanks to IES intern Ashley Trull for helping to conduct interviews.

## **Appendix 1: Research Gathered for Worcester Green Pages**

### **Central MA Sustainability Organizations**

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Absolute Green Energy  
Accelerate Energy  
Artichoke Food Co-op  
ATC Energy Management  
Beaton Construction  
Casella Waste Services  
Central Massachusetts Regional  
Employment Board  
Central New England Solar Store  
Channel Sun  
City of Worcester: Office of Energy  
Management and Conservation  
Conservation Services Group  
Ecotarium  
Empower Biodiesel Cooperative  
Energy All-Stars  
Environmentally Preferable Products  
Vendor Fair  
Focus the Nation  
Future Solar Systems  
Greater Worcester Land Trust  
Honeywell  
Institute for Energy & Sustainability  
JV Mechanical Contractors, Inc  
Living Earth  
Machflow Energy  
Main South CDC  
Massachusetts Audubon (Broad Meadow  
Brook  
Massachusetts Department Of  
Environmental Protection  
Massachusetts Renewable Energy Trust  
Regional Environmental Council  
Second Generation Energy  
Summer of Solutions  
Sun Power Electric  
Toxic Soil Busters  
Trader Joe's  
Worcester Community Action Council  
Worcester Earn-a-Bike  
Worcester Energy Alliance  
Worcester Energy Barn Raisers  
Worcester Green Jobs Coalition  
Worcester Local First  
Worcester Roots  
Worcester Tree Initiative  
World Energy  
WRTA

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## **Worcester College and University Environmental Programs & Initiatives**

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### **Assumption College:**

Natural Sciences Department  
Assumption College Environmental Club

### **Clark University:**

Socio-Techno Transition Initiative  
International Development, Community & Environment  
Marsh Institute  
Worcester Housing, Community and Environment  
Clark Sustainability Initiative  
Clark University Environmental Sustainability Task Force

### **College of the Holy Cross:**

Environmental Studies Department  
ECO-Action

### **Quinsigamond Community College:**

Pathways Out of Poverty Green Collar Job Training Project

### **UMASS Medical School:**

Campus Sustainability Committee

### **Worcester State College:**

Geography & Earth Sciences  
Environmental Advocacy Group

### **WPI:**

Department of Environmental Studies  
Global Awareness of Environmental Activity (GAEA)  
The Green Team  
President's Task Force on Sustainability  
Material Processing Institute  
Fuel Cell Center

### **Holy Name High School**

## **Additional Resources**

### **Select Statewide Environmental Organizations**

Commonwealth of Massachusetts (For Residents)  
Massachusetts Department of Environmental Protection  
Massachusetts Executive Office of Energy and Environmental Affairs  
Massachusetts Department of Energy Resources  
The New England Clean Energy Council  
Massachusetts National Grid  
Massachusetts Energy Consumers Alliance

Community Energy  
Worcester Energy Task Force  
Home Appliance Energy Rebate Program (MA Energy Efficiency Programs)  
Massachusetts residential solar energy incentives  
Massachusetts Clean Energy Center  
New England Clean Energy Council  
Massachusetts Technology Collaborative Renewable Energy Trust  
Northeast Sustainable Energy Association  
Solar Energy Business Association of New England  
Northeast Energy Efficiency Partnerships

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**Resources for Entrepreneurs and Start-Up Businesses**

Worcester Chamber of Commerce  
City of Worcester, Economic Development Division  
Central Massachusetts Regional Employment Board  
SCORE – Councilors to America’s Small Business  
WPI Venture Forum  
Clark University – Central Massachusetts Small Business Development Center  
  
Commonwealth of Massachusetts (For Business)  
US Department of Commerce

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**Additional Local Environmental Resources (Green Homes):**

New England Wind Fund  
Worcester MA Solar Panel Installers  
Percy's Appliance  
Sclamos Appliance  
Carbon Fund  
Terrapass  
LEED for Homes  
DPW Trash and Recycling  
Massachusetts Water Resources Authority  
Toyota  
Worcester Area Home Builders

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**Absolute Green Energy:** Waiting for reply  
**Accelerate Energy:** invalid contact information

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**Name of Organization:** Artichoke Food Co-op

**Location:** 800 Main Street

**Contact information:** Jen Burt

**Organization status and structure:** Cooperative, member-owned and volunteer-run, not-for-profit, run with Coordinators focusing on different parts of the store and then have general meetings for everyone

**Mission:** Our mission at the Artichoke Co-op is to serve a long term interest in a healthier environment and a more just society, while meeting practical needs for access to healthy, inexpensive food. To achieve this we will strive to sell local, organic, and minimally packaged products, where possible. By doing this our hope is to strengthen the local, Worcester economy, local, organic farmers and artists, and the global market for organic foods and make healthy food accessible to all.

**Website:** [www.artichokecoop.org](http://www.artichokecoop.org)

**Demographic region/customers served:** Mostly Worcester, some from Worcester County, goal is to be focused on Main South, typically post-college people, anyone is served members and non-members

**Goals & vision:** Do more locally, improve accessibility of the store: more in Spanish, volunteers that speak Spanish, reducing prices, collaborating with other organizations

**Recent or past projects:** CSA this year: a new service offered to provide local produce, started in June 2009 and will be continuous throughout the year by season

Updating physical structures of the store: re-tile the floor, get a new fridge and a new scale

Farmer's Market: pilot in 2008, whole summer of 2009

**Collaborate:** REC/YouthGROW: work together on Farmer's Market, sell YouthGROW produce: Veg Worcester, **Barely** Legal Treats, One Love, YMCA

**Members:** Around 200: about 20 are volunteer/working members, 180 are buyer members.

Projected growth in the next year: They are discussing strategic planning at the moment, improve physical structure of the store, and create a long term budget

Your organization's needs: Better financial expertise/knowledge, better database systems, a paid position for a coordinator, more member involvement

**Quote:** "Worcester's only volunteer run food co-op."

**Use of inventory website:** 2 purposes: 1 for students and community people to be able to find these places if they are looking and the other for networking and collaboration between those in



the inventory. Specific skills to offer: knowing how other groups are willing to help, information about products or services that might be useful for others, SPECIFICS, not just general mission

**Willing to be contacted:** Yes

**Are you willing to provide business/services to other businesses:** Yes!

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**Name of Organization:** ATC Energy Management

**Location:** 71 Sewell Street, Boylston, MA 01505

**Contact information:** Mark Edmonds; me1@atcsolar.com ph. 508.410.1799

**President:** Jan Chiaretto

**Organization status and structure:** Corporation

**Organization mission:** We provide *energy conservation services* in many different ways. We offer state of the art heating, cooling and air conditioning solutions, "offset technologies" such as solar, geothermal, and other alternatives, energy auditing and consulting, and weatherization services to help our customers run greener, cleaner homes, buildings and manufacturing operations.

**Website:** www.atcenergymanagement.com

**Demographic region/customers served:** Central Ma, Metro-SouthWest, Pioneer Valley

**Product or service you provide and your target audience:** We provide heating efficiency services, HVAC/Geothermal, Solar Systems, Steam Heat, Weatherization Services, and Pool and Water Heating for customers in the residential and commercial sectors.

**Organizations goals & visions:** Help our customers consume energy as efficiently as possible

**Three recent or past projects and associated timelines:** Residential Heating & Cooling systems

**Collaboration with other groups:** We Support [President Obama's](#) agenda to promote energy efficiency The [Backporch Energy Initiative](#) [Northeast Sustainable Energy Association](#) (NESEA) The [Center For Ecological Technology](#) (CET) Massachusetts Solar Contractors, Massachusetts Geothermal Contractors, Massachusetts Heating Contractors, Massachusetts Air Conditioning Contractors, Massachusetts Energy Audits, Massachusetts Cool Smart Contractors and are members of SEBANE.

**Organization funding:** We are funding by contractual payment of services for residential and commercial heating and cooling systems.

**Number of employees:** 4

**Quote & photograph of the organization:**

**Willing to be contacted:** yes

**Willing to provide business/services to other businesses:** yes

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**Name of Business:** Beaton Construction

**Location:** Shrewsbury, MA

**Contact information:** Matthew Beaton, [www.beatonconstruction.com](http://www.beatonconstruction.com)

**Executive Director:** Matthew Beaton

**Organization status and structure:** For-profit

**Organization mission:** construction company: green builders, renovations, new construction, focus on energy efficiency, material use

Residential Energy Solutions: infra-red energy audits, blower door testing, insulation, air-sealing weather-stripping

**Website:** [www.beatonconstruction.com](http://www.beatonconstruction.com)

Please briefly describe three recent or past projects and associated timelines

**Collaborations:** US Green Building Company, LEED, ResNET: energy auditing organization, certification company, Passive House Institute, Nat'l Association of Remodelers, NESEA

**Number of Employees:** 5

What is your business' projected growth in the next year: volume of work: 200%

**What are your business' needs:** internship, publicity/advertising, IQP about heat loss in houses and buildings

Can you provide a quote & photograph of the organization

**How would you like to see the inventory website used:** advertising and market ability to continue this work, get the word out there locally,

**Are you willing to be contacted:** yes

**Willing to provide business/services to other businesses:** yes



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**Casella Waste Services**

**Central Massachusetts Regional Employment Board**

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**Name of Business:** Central New England Solar Store

**Location:** 809 southbridge street, Auburn, MA

**Contact information:** Peter Slota, [peter@cnesolarstore.com](mailto:peter@cnesolarstore.com),

**Owner:** Peter Slota

**Organization status and structure:** Retail

**Organization mission:** “Bringing renewable energy to Main Street”

**Website:** [www.cnesolarstore.com](http://www.cnesolarstore.com)

**Contact person for your business:** Peter Slota, owner

**Services:** broad spectrum of renewable products: Solar PV, Solar hot water, solar cooling, solar ovens, composting toilets, off grid, solar golf, anything you’re looking for!

**Goals & vision:** Bringing renewable energy to main street, retail location

Please briefly describe three recent or past projects and associated timelines

**Collaboration:** Worcester Technical High School, provided materials for training

**Number of employees:** 2

**Projected growth:** no big plans, hopes to have growth

**What are your business’ needs:** improving economy (people leery about making commitments/investments), more customers, and favorable legislation

**Quote:** “Bringing renewable energy to Main Street”

**How would you like to see the inventory website used:** money that talks how much things cost, how much they’ll save, everyone wants to be green, financially motivated

**Willing to be contacted:** sure

**Willing to provide business/services to other businesses:** sure!

**Other:** we waste a lot of energy, people can find a lot of ways to save that cost virtually nothing, solar attic fan for way less and get same benefit, find simple ways, intermediate steps, education



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**Channel Sun:** Waiting for reply

**City of Worcester: Office of Energy Management and Conservation:** Have not yet contacted

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### **Conservation Services Group**

**Location:** 40 Washington Street #3000 Westborough MA 01581

**Contact information:** 508-836-9500 [www.csgrp.com](http://www.csgrp.com)

**Executive Director:** Steven Cowell

**Organization status and structure:** For-profit, service contractor

**Organization mission:**

**Website:** [www.csgrp.com](http://www.csgrp.com)

**Demographic region/customers served:** Entire United States

**Product or service you provide and your target audience:** RESIDENTIAL RETROFIT

Employing a “whole house approach,” our programs in residential retrofitting improve a home’s energy consumption by using cost-effective measures that do not require extensive remodeling work.

- NEW CONSTRUCTION

Combining our expertise in energy efficiency and building science, we deliver a range of products and services from building certification to energy modeling and diagnostic testing, to ensure that homes are more energy/resource efficient, durable, safe, and affordable.

- HEATING/COOLING (HVAC)

Working with key industry groups for more than a decade, we promote efficiency standards for right-sizing equipment, early replacement, quality installation, and maintenance.

- APPLIANCE RECYCLING

Partnering with energy program administrators, utilities, state agencies, municipalities, and other groups we manage large-scale appliance recycling, demanufacturing, and materials reclamation.

- CLEAN ENERGY MARKETS

Pioneering Renewable Energy Certificate (REC) accounting systems and promoting Renewable Electricity Standards (RES) and green power products, we support existing and emerging clean energy technologies.

CSG is a trusted partner for a wide range of challenges—from increasing energy efficiency to tapping renewable energy, to reducing environmental impact and energy-related emissions. We share knowledge among our entire team and partner network, drawing upon the expertise and creativity necessary to address the obstacles and opportunities in energy efficiency and renewable energy.

- POLICY & RESEARCH

From the start, CSG has taken an active role in working with local, state, and national legislative groups to shape responsible public policy for energy conservation and renewable energy.

- CERTIFICATION SERVICES

CSG offers a suite of green certification services to meet the needs of architects,

builders, developers and ultimately home buyers to eliminate the guesswork of “building green.”

- APPLIED BUILDING SCIENCE

CSG takes a "whole house approach" to new construction to design energy-efficient homes, from the building shell (walls, roof, windows) to HVAC systems, to preventing air leaks.

- STRATEGIC MARKETING

With over 25 years of experience in the energy efficiency market, CSG understands consumers and provides a full range of marketing services from campaign conception to implementation and metrics.

- CUSTOMER CONTACT CENTERS

Often as the first point of customer contact, CSG strives to ensure that customers reach someone who understands the program details and can assist promptly

- Organizations Values: Integrity: Each employee accepts responsibility to build trustful, respectful relationships with associates and clients based on honesty and accountability.
- Customer service: Total commitment to helping to achieve the customer's goals and exceed expectations in a courteous, professional manner.
- Enjoyable work environment: To foster teamwork and pursuit of excellence.
- Rewards: Acknowledge and reward employees personally, professionally, and financially for taking ownership of their role and building a successful organization.
- Strong partnerships: Building relationships with our customers, associates and colleagues to open the door for expanded opportunities for better service and business growth.
- Passion/Philosophy: Dedication to protecting the environment and building a socially responsible economy.

**Collaboration:** CSG employees from all levels of the organization are actively involved in dozens of national, regional, and state and trade associations. This includes everything from serving on the board or various committees to participating on industry panels. See list of organizations.



In particular, our Applied Building Science team works closely with Building Performance Institute, Inc (BPI) and Residential Energy Services Network (RESNET). These two

organizations are nationally recognized and are critical to setting industry standards for building professionals and contractors. These partnerships allow CSG to stay abreast of the latest industry research and technology in both energy efficiency and clean energy.

Another critical industry partner is ENERGY STAR®, a joint program of the U.S. Environmental Protection Agency and the U.S. Department of Energy dedicated to helping consumers save money and protecting the environment through energy-efficient products and practices. In fact, CSG has been selected by many utilities and state agencies to implement specific Home Performance programs with ENERGY STAR.

At CSG, our expertise is deep and wide-ranging—and backed by years of real-world experience in all energy-related areas. We have unequalled expertise in building sciences, public policy, energy efficiency programs for residential and commercial buildings, and renewable energy development. By working with our partners, we can share our expertise and learn from theirs. This wide network of partners allows us to address the complex challenges of energy efficiency and renewable energy.



For more than 20 years, CSG has worked with Energy Federation Inc. (EFI) of Westborough, MA—a leading national wholesaler and distributor of energy-efficiency products—including lighting, water and energy-conservation materials. EFI serves utilities, state agencies, builders, and contractors for residential demand-side management programs and distributes a wide range of ENERGY STAR® products.

EFI is our sister organization and oldest alliance. EFI & CSG share some of the same leadership. Senior members of both companies, including our CEO Steve Cowell and their CEO Brad Steele, participate on the board of directors for both organizations. This allows our two companies to work hand-in-hand to deliver a wide range of energy efficient lighting programs, and other clean energy initiatives.



One of our most recent partnerships is with National SAVE Energy Coalition. This coalition, formed in 2008 with CSG playing a leadership role, is comprised of more than 100 member organizations committed to federal public policy that promotes clean, sustainable, efficient energy. The coalition was successful in helping to make energy efficiency a

centerpiece of the American Recovery and Reinvestment Act (ARRA) and to help secure funding for low-income home weatherization, state energy initiatives, and energy efficiency/conservation investments. [Read more.](#)

By pursuing strategic alliances with organizations that share our passion for energy efficiency, clean energy technologies and the environment, we can deliver solutions that make sense – for people and our planet.

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**Ecotarium:** Have not contacted

**Empower Biodiesel Cooperative:** Waiting for reply

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### **Energy All Stars**

**Location:** Holden, MA

**Contact information:** (508)259-9785 F.(508)332-4403 [talk2me@theenergyallstars.com](mailto:talk2me@theenergyallstars.com)

30 Sunnyside Ave, Holden MA 01520

**Executive Director:** Tony Shirley

**Organization status and structure:** For profit

**Organization mission:** To efficiently weatherize New England one house at a time

**Website:** [www.energyallstars.com](http://www.energyallstars.com)

**Demographic region/customers served:** Central MA

**Product or service you provide and your target audience:** Complete advanced energy saving services, thermal image scans, blower door draft testing, advanced air sealing, insulation on new construction and retrofit homes. Contract weatherization work for homes and businesses in Central MA

**Organizations goals & visions:** to drastically reduce any home or business's fuel consumption without reinventing the wheel

**Three recent or past projects and associated timelines:** Have reduced fuel consumption by up to 46% in many of the homes we serviced, provided training to Worcester Community Action Council's Community Count Weatherization program

**Collaboration with other groups:** Lexington Global Warming Alliance, Worcester Community Action Council

**Organization funding:** Funded through contract services

**Number of employees:** 2

**Projected growth in the next year:** No expansion plans but wants to keep a strong grasp on quality control

**Needs of Organization:** Contact

**Quote & photograph of the organization:**

**Use of inventory website:** Business through word of mouth and client referral

**Willing to be contacted:** yes

**Willing to provide business/services to other businesses:** yes

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**Environmentally Preferable Products Vendor Fair:** Have not contacted

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**Focus the Nation: Local Climate Teach-in**

**Location:** Worcester, MA

**Contact information:** Lance McKee

**Executive Director:**

**Organization status:** Yearly activity, ad-hoc

**Organization mission:** To raise awareness about climate and energy issues among high schoolers. To point out the opportunities that this creates for them

**Website:**

**Demographic region/customers served:** Worcester High School Students, South High, Worcester Voc, Bancroft School, Doherty

**Goals & vision:** To make this project happen again in 2010

**Recent or past projects:**

This project has been going on for 2 years, most of the activities have been at South High  
Continuation of Focus the Nation and Step It Up national campaigns  
2 Teach-ins at South High  
Speakers at Doherty, Voc, and Bancroft in 2009

**Collaboration:** Not necessarily collaboration, but a large group of people who participate are from local organizations or are advocates of clean energy

**Members:** About 26, not necessarily consistent in 2010

**Projected growth in the next year:** Not sure

**Organization's needs?:** People who can potentially speak at the events

**How would you like to see the inventory website used?** Website could have information that might be useful to a newspaper reporter, someone with radio talk shows. High schools being happy to have pictures of their event up on the website. Helpful to find contacts of potential speakers and organizations. Would be helpful to draw from the website to tell students about what is going on in Worcester: inspirational stories, potential, and opportunities. Would be helpful for small businesses to help them find customers and help customers find them: most installers, auditors, etc are small businesses. People could find out information on the web about what they can do in their homes prior to choosing a contractor.

**Are you willing to be contacted?** Yes



**Are you willing to provide business/services to other businesses?** No

**Is there anything else you would like to have included?** No.

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**Future Solar Systems:** Contacted, will follow up

**Greater Worcester Land Trust:** Contacted, will follow up

**Honeywell:** Have not contacted

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### **Institute for Energy & Sustainability**

**Location:** 16 Claremont Street, Worcester MA 01610

**Contact information:** [info@greenbusinesszone.com](mailto:info@greenbusinesszone.com) 508-751-4639

**Executive Director:** Vincent DeVito

**Organization status and structure:** For-profit

**Organization mission:** *The IES has three strategic priorities; creating jobs through the incubation of clean technology start-ups and entrepreneurs, enhancing clean energy research, innovation and education, and supporting community groups and programs through science based initiatives.*

**Website:** [www.greenbusinesszone.com](http://www.greenbusinesszone.com)

**Demographic region/customers served:** Worcester and central MA

**Product or service you provide and your target audience:** Incubation services for start-ups and entrepreneurs and clean energy research support and guidance

**Organizations goals & visions:** To enhance the quality of life in South Worcester through providing quality jobs and steady business. To enhance sustainability through driving clean energy research, innovation and sustainable products.

**Three recent or past projects and associated timelines:** Development of Climate Activity Inventory, Organized and Hosted a mayoral forum, developed a sustainability consulting business plan

**Collaboration with other groups:** The IEIS collaborates with numerous groups throughout the city and state, including, the City of Worcester, the Regional Environmental Council, the Worcester Green Jobs Coalition, and the Massachusetts Clean Energy Center.

**Organization funding:** Grant and program funded

**Number of employees:** 3

**Projected growth in the next year:** Projected to have contracted with several clean energy companies to locate in Worcester, to have been involved with three research projects and to have supported two community programs.

**Needs of Organization:** Contact Organization

**Quote & photograph of the organization:**

**Use of inventory website:** To network, familiarize yourself with environmental activities in Worcester and to have a way to get involved

**Willing to be contacted:** Yes

**Willing to provide business/services to other businesses:** Yes

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**JV Mechanical Contractors, Inc:** Have not contacted

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**Living Earth**

**Location:** 232 Chandler St., Worcester MA

**Contact information:** 508 753 1896

**Owners:** Albert and Maggie Maykel

**Organization status and structure:** Family Owned and operated

**Organization mission:** Provide central MA community with foods and specialty items that are natural, organic, and environmentally and socially conscious.

**Website:** <http://www.lefoods.com/>

**Demographic region/customers served:** Central MA

**Product or service you provide and your target audience:** Organic and natural foods, and nutritional supplements

**Organizations goals & visions:** Provide customers with the best food available, to promote local and organic farming practices

**Three recent or past projects and associated timelines:** Have donated to regional causes

**Collaboration with other groups:**

**Organization funding:** Sales by the store

**Number of employees:** 14

**Projected growth in the next year:** Expecting some growth in the next year

**Needs of Organization:**

**Quote & photograph of the organization:**

**Use of inventory website:** Link to Living Earth website

**Willing to be contacted:** Yes

**Willing to provide business/services to other businesses:** Yes

**Other:** Member of Chandler Street Business Association and Worcester Local First

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**Machflow Energy:** Contacted, will follow up  
**Main South CDC:** Contacted, will follow up

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**Massachusetts Audubon Society Broad Meadow Brook**

**Location:** 414 Massasoit Road Worcester MA 01604

**Contact information:** 508-753-6087; [bmbrook@massaudubon.org](mailto:bmbrook@massaudubon.org)

**Executive Director:** Deborah Carey

**Organization status and structure:** Non-Profit

**Organization mission:** To protect the nature of Massachusetts for people and for wildlife

**Website:** [http://www.massaudubon.org/Nature\\_Connection/Sanctuaries/Broad\\_Meadow/index.php](http://www.massaudubon.org/Nature_Connection/Sanctuaries/Broad_Meadow/index.php)

**Demographic region/customers served:** Primarily Worcester, but attracts visitors from all over the world

**Product or service you provide and your target audience:** Land protection, education, and conservation advocacy. Target audience preschoolers to retirees

**Organizations goals & visions:** Protecting the nature of Massachusetts, land conservation, addressing climate change and education. Tie people into the land, going hand and hand with protecting our wildlife resources.

**Three recent or past projects and associated timelines:** Installed interpretive signs along trail system, mid-summer, 10 year project, developing early succession habitat by selective cutting along Cardinal Trail. Working closely with Worcester Public Schools, fourth grade curriculum, and pre-schoolers to give them grounding in science, working with Ecotarium

**Collaboration with other groups:** Partner with local entities, Worcester Local Land Trust, Grafton Land Trust, symbiotic with Blackstone River Coalition

**Organization funding:** membership based organization, also grants and private foundations and donations. Outside of grants, no federal or state funding. Relies on between 60-100 volunteers, advisory board that is volunteer, high school volunteers, groups that volunteer.

**Number of employees:** 6 regular staff part or full time, 20-25 hourly

**Projected growth in the next year:** Just purchased property to preserve space near the visitors' center, sensory trail for visually impaired

**Needs of Organization:** Call to inquire

**Quote & photograph of the organization:** "The best kept secret in Worcester"

**Use of inventory website:** To bring visitors to Broad Meadow Brook

**Willing to be contacted:** yes

**Willing to provide business/services to other businesses:** yes

**Other:** Offer educational classes and programs on an ongoing basis

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**Massachusetts Department Of Environmental Protection:** Have not contacted

Massachusetts Renewable Energy Trust: Have not contacted

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**Regional Environmental Council**

**Location:** 9 Ccastle Street

**Contact information:** Steve Fisher

**Executive Director:** Steve Fisher

**Organization status and structure:** non-profit, board of directors

**Organization mission:** REC is a grassroots, non-profit organization located in Worcester, Massachusetts . Founded in 1971, REC has been dedicated to building strong, just, healthy communities and improving the quality of life in Worcester for 32 years. We accomplish our mission by: Coordinating programs that bring community members together while addressing urban environmental problems. Empowering neighborhood residents to take on environmental leadership roles in their communities. Providing events and forums for environmental education and networking to Worcester residents. Advocating at the local and state levels for environmentally and socially sound decisions regarding issues such as open space, solid waste disposal, waterways, air pollution, and clean energy.

**Demographic region/customers served:** Worcester residents, with a focus on low-income neighborhoods, 7 lowest income tracts in Worcester, Main South/Piedmont

**What are your organization's goals & vision?**

Creating health and sustainable communities

Urban food systems program: create a local food system, as much local food as possible

Lead Action Collaborative: eliminate childhood poisoning by 2010

Environmental Justice: Empower people with knowledge so they can make healthy decisions inside and outside home, organize and enact legislation so that low income neighborhoods have more accountability to decision makers, give more access to those who have been historically defined

**Recent or past projects:**

Main South Farmers market: 22 week farmer's market took place at Main & Benefit and at YMCA

YouthGROW: 7 week summer program, employed 32 teenagers in summer of 2009, 4 indirectly employed, is over but is still on-going as they are shifting to a year-round program

Slow Food Gala: an fundraiser event in collaboration, invite people to have a 5-course meal of all local organic food

Earth Day 2009: Clean up, 20th anniversary, 1,000 volunteers, removed 60 tons of trash and garbage from public waterways, parks, and streets, done in collaboration with the DPW, Waste Management, signature event

**Collaboration:**

A lot of community organizations

The city

YMCA

College of Holy Cross

Worcester DPW

Waste Management

National Grid

Southeast Asian

Main South CDC

Oak Hill CDC

Worcester Common Ground

African CDC

Hunger Free and Healthy Initiative

Worcester Advisory Food Policy Council

Health Foundation of Central MA

UMASS Memorial



**Members:**

Staff: 6 (higher in the summer, probably 20 at its peak)

Administrative support:

Members: around 300

**Projected growth in the next year:**

Community Food Project Grant: 100,000/yr for 3 years for urban food systems program, 80% growth

More broadly, 10-20% estimate

**Organization's needs:**

Income generation, more social ventures, goal would be whole sustainability, short term: move in the direction of self-sustainability, help with business plans, help with membership (more members), more committed donors (consistency), stop scrambling for grants, more formal procedures: need help with internal practices and streamlining functioning, help establishing structure and new organization with growth

**How would you like to see the inventory website used?**

Great idea!

Would like to see it put into categories: all non-profits in Worcester: youth, environmental, health, etc

Constantly updated and maintained

Important to be accessible, specifically to emphasize that REC can be a resource

**Willing to be contacted?** Steve Fisher should be contacted, Julius Jones will be a secondary contact

**Willing to provide business/services to other businesses?**

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**Second Generation Energy:** Have not contacted

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### **Summer of Solutions**

**Location:** Worcester, MA

**Contact information:** Ashley Trull, ashtrull@gmail.com

**Executive Director:** N/A

**Organization status:** An organizing team of 10-15 people, participation of 20-50 individuals during the summer

**Organization mission:** Summer of Solutions 2009: Worcester is a two-month cooperative summer learning experience which seeks to build a community to address environmental, social, and economic issues in the Worcester area and engage participants in collaborative, skill-building, hands-on projects.

With a focus on building a creative, collaborative community, Summer of Solutions 2009 : Worcester will create public spaces and opportunities for solutionaries to grow, express, and empower themselves and each other. Solutionaries will participate in collaborative projects and engage in collective education to build an empowered citizenry and a strong community for social change.

Focused on creating healthy, just communities and sustainable, green jobs, projects include the production and promotion of local, sustainable food; residential energy efficiency improvements; and the promotion of sustainable transportation options. Through the co-creation of sustainable, community-based solutions that address social justice, environmental justice and economic revitalization, solutionaries will work together to create community-level energy solutions and build the local green economy.

**Website:** [www.summerofsolutionsworcester.org](http://www.summerofsolutionsworcester.org)

**Demographic region/customers served:** Worcester residents, activists, and organizations

**Goals & vision?:** Our goal is to bring people together as a community to work on hands-on projects addressing climate change, energy, and environmental justice, as well as finding ways of creating spaces to learn from each other, grow together, and empower each other. The specific goals for summer 2010 are currently being worked on.

**Recent or past projects:** During the Summer of Solutions 2009 program, 25 people participated in one or more of three projects that were organized around community gardening, green jobs, and energy efficiency/weatherization. The community garden project worked on 5 gardens in the city of Worcester: opening one new garden with the Regional Environmental Council, preparing two others for growing, helping the Dismas House re-open its garden, and working on strengthening, planting, and maintaining the Richard's Street Community Garden. The Green Jobs project group worked with the Worcester Green Jobs Coalition to design, produce, and distribute promotional and informational materials green jobs. The Energy project group worked on organizing an energy barn-raising and has emerged from the summer as a new group of people, the Worcester Energy Barn-raisers, who are continuing the project.

**Collaboration:** Regional Environmental Council, the Worcester Green Jobs Coalition, the Worcester Clean Energy Campaign, Worcester Housing, Energy, and Community, Clark University, Dismas House, Stone Soup.

**Members:** 10-15 planning team members, 25 previous summer participants, ?? participants for summer 2010

**Projected growth:** We hope to have even more people involved over the next year and into next summer.

**Organization's needs:** Our main need right now is funding; we are looking for donations, sponsors, etc. We could also use more partnerships with local businesses and organizations with overlapping interests. We need meeting spaces to hold our weekly meetings that are accessible. We need more publicity and outreach with new communities of people.

**How would you like to see the inventory website used:** It would be great to use the inventory website to find co-sponsors, funders, donors, and others who may wish to host a barn-raising

**Willing to be contacted?** Yes

**Willing to provide business/services to other businesses?** Yes, we are looking for organizations who would like to work with us on designing projects for next summer that build off of what they are already working on.

**Is there anything else you would like to have included?** Summer of Solutions is not an actual organization; it is a summer program. During the Fall semester it is in a bit of a interim break until planning really begins for Summer 2010 in January.

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**Sun Power Electric:** Have not contacted

**Toxic Soil Busters:** Contacted, will follow up

**Trader Joe's:** Have not contacted

**Worcester Community Action Council:** Contacted, will follow up



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## **Worcester Earn-a-Bike**

**Location:** 4 King St. Worcester, MA 01610

**Contact information:** Gray Harrison, [gray@worcesterearnabike.org](mailto:gray@worcesterearnabike.org), 508-579-9093

**Executive Director:** Gray Harrison

**Organization status and structure:** Non-profit 501(c) 3

**Organization mission:** Worcester Earn-a-Bike is a non-profit community based bicycle program. Our mission is to teach fun, affordable bike repair to neighborhood youth and community members by providing tools, instruction, and repairable bikes and parts. We encourage bike riding as an empowering, economical, and healthy alternative to car culture

**Website:** [worcesterearnabike.org](http://worcesterearnabike.org)

**Demographic region/customers served:** Worcester Main South area

**Product or service you provide and your target audience:** We provide recycled bicycles to people of all ages, and we provide tools and parts for people to fix their own bicycles.

**Organizations goals & visions:** Worcester Earn-a-Bike is a community program dedicated to teaching people bicycle maintenance while enabling them to earn a bike from our inventory of donated bicycles. Everyone ages 9 and up is welcome

**Three recent or past projects and associated timelines:** The Ciclo Vida Go Local Tour was a series of bicycle rides sponsored by Earn-a-Bike to connect bicyclists with local food projects during the summers of 2008 and 2009.

**Collaboration with other groups:** Earn-a-Bike is a founding member of the Stone Soup Community Center.

**Organization funding:** Some grant funding for special projects, but our main sources of income are memberships and selling bikes.

**Number of employees/members:** We are mostly an all volunteer organization, typically with 1 or 2 part-time employees. There are over 100 members of Earn-a-Bike.

**Projected growth in the next year:** We hope to double the amount of bikes recycled and returned to use in the coming year.

**Needs of Organization:** Planning and organization, more diversity on our board.

**Quote & photograph of the organization** (attach a photo if you have one): sent in a separate email.

**Use of inventory website** (how can the inventory be useful for you/your organization?): It seems that it will help connect us with other organizations with similar goals for a sustainable Worcester.



**Are you willing to be the continued contact for the Institute and EAG?:** Yes

**Willing to provide business/services to other businesses:** Yes

**Other:**



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### **Worcester Energy Alliance**

**Location:** Online

**Contact information:** [rkerver@gmail.com](mailto:rkerver@gmail.com)

**Site Owner:** Richard Kerver

**Organization status and structure:** Google Group

**Organization mission:** To promote broad public awareness of the climate change issue and people taking responsibility for their carbon footprint. Relationship building, engagement and enhancing community communication.

**Demographic region/customers served:** Central MA

**Product or service you provide and your target audience:** Education, audience public

**Organizations goals & visions:** Achieving the Bill McKibbin vision of getting carbon concentrations at or below 350 and embracing the Al Gore strategy of 100% renewable energy by 2020, thus achieving uncompromised process for action to reduce human impacts on climate

**Three recent or past projects and associated timelines:** Step it Up 2007 Worcester Energy Alliance, Worcester Clean Energy Campaign, 350.org – 2009. Helping the local population to organize and participate in national climate action programs. Political advocacy, successfully persuading 350 ppm to be included as a goal in the State Democratic party. What are the national issues and how can I be involved locally.

**Collaboration with other groups:** seeks to build community support and engage the public in climate issues. Partners with Focus the Nation, a day-long climate education event at Worcester High Schools. Works with the Clean Energy Campaign, works with the Worcester Energy Alliance

**Organization funding:** volunteers

**Number of volunteers:** 100

**Projected growth in the next year:** Sustain current numbers

**Needs of Organization:** People & creativity

**Willing to be contacted:** yes

**Willing to provide business/services to other businesses:** yes

**Other:** Should be a place for ideas to be generated, discussed and acted on in relation to climate action. We are looking for high quality, low traffic distribution of information to a target audience that is really committed to changing from carbon intensive practices to carbon neutral.

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### **Worcester Energy Barn Raisers**

**Name of Organization:** Worcester Energy Barn-raisers

**Location:** Worcester, MA

**Contact information:** Ashley Trull, ashtrull@gmail.com

**Executive Director:** N/A

**Organization status and structure** (board of directors, 501c, etc): An organizing team of 15-20 residents, students, professors, and trades-people

**Organization mission:**

The Worcester Energy Barn-raisers strive to promote environmental sustainability as well as social and economic justice through collaborative home energy efficiency projects. We, the Worcester Energy Barn-raisers, commit to collaborating with others in the Worcester community by engaging in energy efficiency projects at the grassroots level. We are translating the negative effects of climate change into inclusive community solutions through weatherization barn-raising, which empower and inspire diverse groups of people to take energy conservation into their own hands. Our team seeks to promote environmental and social justice by making these opportunities accessible to everyone.

**Website:** [www.energybarnraising.org](http://www.energybarnraising.org)

**Demographic region/customers served:** Worcester residents, home-owners, and organizations

**Goals & vision:** Our goal is to bring people together as a community to find local energy solutions through energy barn-raising, events where people of all experience levels, backgrounds, and ages get together to work on weatherizing a particular building, home, or community space to save energy, learn new skills, and celebrate their successes together.

**Recent or past projects:** We are a new group that have recently accomplished organizing two energy barn-raising. Our first barn-raising was in July 2009 at Father Brooks' House, a site of the Dismas House, Inc., in which over 50 locals came out to help with the weatherization effort. The second barn-raising we organized was on October 24th, the International Day of Climate Action and was held at the Genesis Club, another non-profit in Worcester. About 100 people showed up for the event and worked locally in collaboration with thousands of events going on

around the world. Now, the group is working on the next barn-raising on December 5 at the Woo Church on Main Street.

**Collaboration:** Clark University

**Members:** 15-20

**Projected growth:** We hope to bring in new members to the planning team and growing enough financially and organizationally to be able to hold one barn-raising per month.

**Organization's needs:**

Our main need right now is funding; we are looking for donations, sponsors, etc.

We are currently looking for a non-profit organization to be our fiscal sponsor so that we can work with them on applying for grants and processing them until we are able to get our own EIN and 501c3 status.

We could also use more partnerships with local businesses and organizations with overlapping interests.

We need meeting spaces to hold our weekly meetings, that are accessible.

We need more publicity and outreach with new communities of people.

**How would you like to see the inventory website used:** It would be great to use the inventory website to find co-sponsors, funders, donators, and others who may wish to host a barn-raising

**Are you willing to be contacted:** Yes

**Are you willing to provide business/services to other businesses:** Yes, we can do barn-raising for anyone who is interested in holding a community event and improving their energy savings with free labor.

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### **Worcester Green Jobs Coalition**

**Contact information:** Sarah Assefa, sarah@worcesterroots.org

**Executive Director:** N/A

**Organization mission:** Organizing a local movement for green collar jobs for all. We work for resources to create sustainable jobs that are in sync with our community, culture and needs.

**Website:** [www.greenjobsworcester.org](http://www.greenjobsworcester.org)

**Goals & vision:** Connect youth and people who need jobs with those who can offer them.

Promote jobs that stimulate us, our community, and our economy.

Engage with businesses and city departments, city works.

Connect ideas and passion with green (\$ and others) resources.

Build a stronger healthier community.

Do education, outreach and engagement with grassroots.

Facilitating green business creation and development.

Don't discriminate on race, age, CORI, gender, ability, class, neighborhood preference, sexuality.

**Collaboration:**

Toxic Soil Busters and Worcester Roots

Regional Environmental Council

YouthGrow

Ex-prisoners and Prisoners Organizing for Community Advancement (EPOCA)

Pernet Family Health

Clark Sustainability Initiative

Stone Soup Youth Agriculture Program

Clean Water Action

Summer of Solutions

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**Worcester Local First:** Contacted, will follow up

**Worcester Roots:** Contacted, will follow up

**Worcester Tree Initiative:** Contacted, will follow up

**World Energy:** Contacted, will follow up

**WRTA:** Contacted, will follow up

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## **Appendix 2: Colleges & Universities, Schools and Research Organizations**

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**Assumption College: Natural Sciences Department**

**Location:** 500 Salisbury St Worcester, MA 01609-1296 (508) 767-7000

**Contact:** Edward Dix, Chairperson of the Department of Natural Sciences, 508 767 7292

**Organization status and structure:** College/Non-profit

**Website:** <http://www1.assumption.edu/programs/natsci/default.php>

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**Assumption College Environmental Club**

**Location:** Assumption College, 500 Salisbury St

Worcester, MA 01609-1296

(508) 767-7000

**Contact information:** Professor James Hauri (advisor): [jhauri@assumption.edu](mailto:jhauri@assumption.edu)

**Co-president:** Katie Frasier

**Organization status and structure:** Student Organization

**Organization mission:** The Assumption Environmental Club works to create a more environmentally conscious community. Recycling has been the club's primary goal.

**Website:** <http://www1.assumption.edu/stulife/stuact/Clubs/clubpage.htm>

**Demographic region/customers served:** Assumption students, Assumption campus

**Services:** The group was founded several years ago and was started with recycling as the main focus. Recycling has been a continuous goal since then.

Please briefly describe three recent or past projects and associated timelines  
The group has also worked on recycled book drives, has worked with social justice committee, and had done a bit of work on sustainability as well as water and energy use.

**Collaboration:** Social justice committee: Their theme was environmental justice this year, typically do not work together. Have worked with commercial recycling orgs to set up a program in the past – passed this over to the Assumption administration

**Members:** 10 active members, 20 affiliated

**Needs:** More support from other groups and groups at other colleges. It is helpful for groups to work together, green up the colleges, and know what other colleges are doing.

Talk to other student groups on other campuses with successful recycling programs

Can you provide a quote & photograph of the organization

**Are you willing to be contacted in the future:** yes

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### **Clark University**

950 Main St

Worcester, MA 01610

508-793-7711

### **Social Technical Transitions Initiative**

**Location:** Clark University, 950 Main St, Worcester, MA 01610

**Contact information:** [Halina Szejnwald Brown](#), Professor of Environmental Science and Policy, Department of International Development, Community, and Environment (IDCE), Clark

University, 950 Main St, Worcester, MA 01610, Phone: 508.793.7172, Email:  
hbrown@clarku.edu

**Organization status and structure:** Loose gathering of researchers associated with Marsh

**Organization mission:** The mission of the Socio-Technical Transition Initiative at the George Perkins Marsh Institute is to ensure that technological advances in energy and other areas related to sustainability are paired with the socio-technical knowledge and tools needed to accelerate transitions that yield multiple benefits to society. The Initiative adapts contemporary research on socio-technical learning and transitions for direct use by policymakers and stakeholders, combining science with outreach to promote environmental, economic and social benefits. The Initiative builds on expertise at Clark, Worcester Polytechnic Institute (WPI) and other institutions.

**Website:** <http://www.clarku.edu/departments/marsh/about/initiative.cfm#ixzz0SW1fMvTh>

**Demographic region/customers served:** aiming to affect Central MA, bc it involves generating knowledge, it would benefit everyone

**Goals & visions:** to help the policy-makers in this region and leaders of the community to facilitate transition of Worcester in this area to a more sustainable society. Applied research project that can diffuse into the local economy and practices

Three recent or past projects and associated timelines: One project is researching action that looks at the housing stock and seeks to understand better what it would take to shift this housing stock towards much: WHEC

**Collaboration:** Connected to the Research Enterprise in US and Europe.

**Funding:** No

**Number of employees/members:** Core is 6. Looser association through WHEC group, 10-15 people

**Needs of Organization:** Identifying groups and individuals that work on retrofitting houses: how to do it, educational training programs, activist groups pushing for it. It would be great to see other groups from a systems perspective

**Use of inventory website:** Networking to connect with other projects, identifying key players in the area, not a techie person, should be easy to use despite experience with tech. The inventory is useful but would hope that the Institute itself will provide a forum for more *interaction* among key actors in housing, transportation, etc for exchange of knowledge/ideas and generation of new ideas.

Willing to be contacted: yes

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## **International Development, Community & Environment**

**Location:** Clark University, 950 Main St, Worcester, MA 01610

**Contact information:** Department Phone: 508-793-7201

Fax: 508-793-8820

Email: [jdce@clarku.edu](mailto:jdce@clarku.edu)

Executive Director: Director of IDCE

William F. Fisher, Ph.D.

508-793-7201

[wfisher@clarku.edu](mailto:wfisher@clarku.edu)

### **Organization status and structure (board of directors, 501c, etc): Academic Department**

**Organization mission:** IDCE prepares students to become agents of social change—locally, nationally, and internationally—in an increasingly interconnected world. IDCE is a community of scholars and practitioners dedicated to environmental sustainability, social justice, and economic well-being. We focus on major forces of social change: grass roots initiatives, social movements, government policy, market approaches, entrepreneurship, technological innovation, individual action, and education.

**Website:** <http://www.clarku.edu/departments/idce/default.cfm>

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## **Worcester Housing, Community and Environment**

**Location:** Based out of Clark University, Marsh Institute, 950 Main St, Worcester, MA 01610

**Contact information:** Philip Vergragt, [Philip.vergragt@clarku.edu](mailto:Philip.vergragt@clarku.edu)

**Organization status and structure:** informal group, part of the Marsh Institute, rooted in the new IEIS

**Organization mission:** Not firmly stated. To focus on the existing residential housing stock in Worcester and to research and investigate how to weatherize or deep energy retrofit a large amount of the housing stock. Working hypothesis: you need multiple stakeholders top-down and bottom up, as well as researchers to collaborate to find the most effective action

**Demographic region/customers served:** city of Worcester and its surroundings, widest range would be mid-MA

**Goals & visions:** is informal and has convened in 5 meetings, idea of organizing a larger-scale conference, a work in progress

**Number of employees:** about 30 people involved

**Needs of Organization:** funding for activities: staffing, website, information-gathering activities, secretarial endorsement

**Use of inventory website:** could be very useful to find similar groups, groups with expertise, individuals with knowledge or access to other networks right now in private/business sector, can help identify which businesses are working on climate change

**Willing to be contacted:** Until the end of 2009, after that not sure

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### **Clark Sustainability Initiative**

Location: Clark University, 950 Main St, Worcester, MA 01610

Contact information: Ashley Trull, AsTrull@clarku.edu

**Organization status and structure:** Student campus organization

**Organization mission:** Clark Sustainability Initiative is a non-hierarchical consensus based community of student activists creating a forum for Clark students to further discuss and act on issues surrounding environmental sustainability and climate change. We strive to promote social justice in the context of environmental issues by engaging the community through events and actions. Our mission is to further sustainability at Clark University and in our larger society

**Website:** <http://groups.google.com/group/csi-dialogue>

**Demographic region/customers served:** Clark University campus

#### **Please briefly describe three recent or past projects and associated timelines:**

Summer of Solutions: members of CSI organized a summer program in Worcester to engage in community-based solutions to climate change through working on collaborative projects with local organizations.

Power Shift: CSI has organized for a busload (55) students to attend both the Power Shift 2007 conference, and the Power Shift 2009 conference, the first and second national youth climate summits to address the climate change

Power Vote: CSI mobilized over 450 students to sign up to vote in the elections and make climate change and clean energy their top voting priorities

**Collaboration:** Clark University Environmental Sustainability Task Force, Cycles of Change, Worcester Energy Barn-raisers, Regional Environmental Council, Stone Soup, Worcester Green Jobs Coalition, Eco-Reps

Number of members: **10-15 core members, over 100 supportive members**

#### **What are your organization's needs:**

Better collaboration with Worcester organizations

Better communication with other student groups

More awareness of local campaigns to plug into



**How would you like to see the inventory website used:** As a place for people to find information about climate action in Worcester: students can plug into activities and groups outside of the Clark campus

Information-sharing, networking, and collaboration

**Are you willing to be contacted:** Yes

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**Clark University Environmental Sustainability Task Force**

Location: Clark University, 950 Main St, Worcester, MA 01610

**Contact information:** David Schmidt, [dschmidt@clarku.edu](mailto:dschmidt@clarku.edu)

**Executive Director:** Provost David Angel (Chair), [dangel@clarku.edu](mailto:dangel@clarku.edu), (508) 793-7673

**Organization status and structure:** The task force is comprised of representatives from the faculty, administration, and graduate and undergraduate students

**Organization mission:** Our mission is to promote environmental sustainability at Clark University by increasing awareness of environmental and sustainability issues on campus, by researching environmental impacts of University activities along with recommendations for improvement, and coordinating activities related to environmental sustainability of the University.

**Website:** <http://www.clarku.edu/offices/campusSustainability/mission.cfm>

**Demographic region/customers served:** Clark University campus

**Goals & visions:** Develop and implement a Climate Action Plan for Clark University in accordance with the American Colleges and Universities President's Climate Commitment

**Three recent or past projects and associated timelines:** Development of Clark's Climate Action Plan (Fall 2007 – Fall 2009)

**Collaboration:** Clark Sustainability Initiative

**Members:** 10-15

**Willing to be contacted:** Yes

**Willing to provide business/services to other businesses:** Call with inquires

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**College of the Holy Cross**

1 College St

Worcester, MA 01610

508-793-2011

**Environmental Studies Department**

**Location:** College of the Holy Cross, 1 College St, Worcester, MA 01610

**Contact information:** Loren R. Cass, 508 793 3683, [lcass@holycross.edu](mailto:lcass@holycross.edu)

**Organization status and structure:** Educational department at Holy Cross College, interdisciplinary program, hybrid

**Organization mission:** This program is a multidisciplinary, student-designed major and concentration offered through the Center for Interdisciplinary and Special Studies. Focusing on the causes, mechanisms, and effects of environmental problems, students construct their own program of study, taking courses from three or more disciplines to provide a comprehensive understanding of environmental issues.

**Website:** <http://www.holycross.edu/academics/environmental/>

**Demographic region/customers served:** Holy Cross students and campus

**Please briefly describe three recent or past projects and associated timelines:**

Research projects in: Environmental economics, energy economics of renewables, climate change species in the area, local climate changes affecting local eco systems, Harvard Forest research in Princeton, MA: species studies, Siberia research on the release of carbon and methane from permafrost, climate politics: Europe and the US

**Collaboration:** REC – campus garden, work-study students worked on the garden and the urban gardening projects of REC, Slow Food Gala with REC, Worcester Land Trust, Professor Roberts (environmental math) worked with Blackstone Collaboratory), Catherine Roberts- local contacts

**Members:** 2700 students at HC, 21 majors now, around 50 minors/concentrators, its grown over the past few years, faculty: 20 affiliated, 12 are “core”, spread across Biology, Philosophy, Economics, Religion, History, Political Science

**How would you like to see the inventory website used:** A sense of what other resources are available in the Worcester, Ex. GIS class/professors, opportunities for students to take courses, knowing what else is out there, having students be able to find out what’s out there, better collaboration, supplementation, finding colleagues

**Are you willing to be contacted:** yes

**Is there anything else you would like to have included:** Interested in seeing what's in it and what the possibilities are

**Other:** Just submitted to climate action plan to AASHE, mostly worked on by Katherine Kiel in Economics and John Cannon in physical plant, completed full inventory, goals for 20% reductions

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**ECO-Action**

Location: College of the Holy Cross, 1 College St, Worcester, MA 01610

**Contact information:** Eco-Action@holycross.edu

Executive Director: N/A

**Organization status and structure:** Recognized student organization at Holy Cross, student-comprised and run

**Organization mission:** The Environmental Concerns Organization (ECO) is a student driven environmental group at Holy Cross dedicated to the promotion of conservation through education and local action. Co's involvement in environmental concerns extends from community based activities to participation in larger coalitions. ECO strives to increase environmental awareness on campus and to educate the Holy Cross community on environmental issues

**Website:** <http://sites.google.com/a/holycross.edu/eco-action>

**Demographic region/customers served:** Holy Cross campus

### **3 Recent Projects:**

Power Vote and Power Shift

Eco-Action facilitated Holy Cross's active participation in Power Vote, getting over 500 of our fellow students to pledge to vote for clean and just energy. During our spring break, 15 of us headed down to D. C. for Power Shift 2009 with funding from the Student Government Association and the Environmental Studies Program. After Power Shift, we participated in follow-up activities, like calling our representatives and senators and taking photos on campus with "I Voted For..." signs to post on the Power Shift website.

<http://www.necn.com/Boston/New-England/2009/02/26/Holy-Cross-students-opt-for/1235689061.html>

Trash or Treasure

Last May, Eco-Action sponsored Trash or Treasure, a program to redirect unwanted student items at move-out to local charitable organizations. This project was entirely student-run, and ended up being a hugely successful undertaking. We worked extensively with Student Programs and Involvement, Housing and Residence Life, and the Physical Plant to ensure the program was a success. We ended up having a collection box on every floor, resulting in five truckloads of items donated instead of thrown away. We donated to Salvation Army, a family shelter, and a prisoner rehabilitation house, the latter two being sites where Holy Cross students volunteer regularly through the Student Programs for Urban Development Program, the school's largest student organization.

Voter Registration Campaign

This semester, along with SPUD, College Democrats, and College Republicans, we registered over 200 of our fellow students to vote in Worcester's November 3rd Elections. We are co-

hosting a Candidates Night on October 21st at 5:30 pm in the Rehm Library on campus, and will be helping provide transportation all day to our polling site on election day.

**Collaboration:** on-campus groups at Holy Cross, i.e. Latin American Students Organization, Student Programs for Urban Development, Oxfam, Women's Forum, etc and larger student coalitions like Massachusetts Power Shift (MAPS), Sierra Student Coalition, Campus Climate Challenge, etc

**Funding:** Holy Cross SGA Reserve Board

**Members:** 30-40

**Willing to be contacted:** Yes

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### **Quinsigamond Community College**

670 W Boylston St  
Worcester, MA 01606  
508-853-2300

### **Pathways Out of Poverty Green Collar Job Training Project**

**Location:** Quinsigamond Community College, 670 W Boylston St  
Worcester, MA 01606-2092

**Contact information:** Mary Knittle,  
Executive Director

**Organization status and structure:** Non-profit; Educational  
Organization mission:

**Website:** Photovoltaic (PV) Boot Camp:

<http://cce.qcc.mass.edu/college/coursewithshoppingcart.asp?courseid=3873&Closing=NO>

### **Demographic region/customers served**

Solar, PV, auditing Training Class

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### **UMASS Medical School**

55 Lake Avenue  
Worcester, MA 01604  
508-856-8989

### **Campus Sustainability Committee (part of Growing Green)**

**Location:** UMASS Medical School, 55 Lake Avenue North, Worcester, Massachusetts 01655

**Contact information:** Madeline.Herman@UMassMed.edu

**Organization status and structure:** Committee is working on, LEED sustainability- Engineer: energy and sustainability, Melissa Lucas manages the program, it will expand and create new committees

**Organization mission:** The campus Sustainability Committee has been working on these issues since 2004. Its ongoing mission has now been fine-tuned to address the goals Governor Deval Patrick's [Executive Order 484](#) "Leading By Example—Clean Energy and Efficient Buildings" and the [American College & University Presidents Climate Commitment](#), signed in 2007 by UMass President Jack Wilson.

This site provides an overview of the ongoing multi-layered sustainability program the institutions are working on cooperatively to reduce energy consumption, reduce greenhouse gas emissions, expand recycling and other measures that collectively limit the carbon footprint of the campus.

**Website:** <http://www.umassmed.edu/Content.aspx?id=73154>

**Demographic region/customers served:** UMASS Medical School Campus

**Goals & vision:** The campus Sustainability Committee has been working on these issues since 2004. Its ongoing mission has now been fine-tuned to address the goals Governor Deval Patrick's [Executive Order 484](#) "Leading By Example—Clean Energy and Efficient Buildings" and the [American College & University Presidents Climate Commitment](#), signed in 2007 by UMass President Jack Wilson. Drafting up climate plan for ACUPCC

**Please briefly describe three recent or past projects and associated timelines:** Pull from tabs on website: energy, emissions, purchasing (green cleaning products), recycling, building

**Collaboration:** UMASS Memorial Hospital, other UMASS campuses

**Members:** Committee itself is 25 members, others involved in Growing Green in other ways, Sustainability Office has 1 employee

**What is your business' projected growth in the next year:** Growing/expanding as a committee and program: doing student outreach

**What are your organization's needs:**

Identifying similar programs: how they work, what they've done.

**How would you like to see the inventory website used:**

Linking to get the word out that they have a website, can use it to get to know other programs to partner with in Worcester, envision creating campus events and community outreach for sustainability, opportunity to co-sponsor

**Are you willing to be contacted:** yes

Questions/Comments/Concerns:

Send along the information collected so Melissa can look it over  
the URL may be changing

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### **Worcester State College**

486 Chandler Street  
Worcester, MA 01602  
508-929-800

### **Geography & Earth Sciences**

**Location:** Worcester State College

**Contact information:** William Hansen, [whansen@worchester.edu](mailto:whansen@worchester.edu)

Organization status and structure: Non-profit; Educational

**Organization mission:** The program in Geography and Earth Sciences offers a number of courses leading to a major in the field of geography. A minor in Geography and a concentration in Environmental Studies are available to interested students.

**Website:** <http://worchester.edu/Academics/Shared%20Documents/Departments/science.aspx>

**Demographic region/customers served:** Worcester State College campus

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### **Environmental Advocacy Group**

**Location:** Worcester State College, 486 Chandler St. Worcester, MA

**Contact information:** [eag@worchester.edu](mailto:eag@worchester.edu), Advisor: Jeff Cranson, [jcranson@worchester.edu](mailto:jcranson@worchester.edu)

**Current president:** Nick Charette

**Organization status and structure:** We are a major org at Worcester state college. We are made up primarily of students, with some help from a few professors.

**Organization mission:** To help improve the environment quality at Worcester state college (and Worcester in general) through example and implementation.

**Website:** Currently, None.

**Demographic region/customers served:** Students of Worcester State College (WSC).

**Product or service you provide and your target audience:** We provide an easier way to a more sustainable lifestyle to Students at WSC.

**Goals & visions:** To improve recycling on campus, make students more aware of sustainable actions, and help turn the school "green".

**Three recent or past projects and associated timelines:** Water monitoring with Mass-Audubon (Blackstone river: Clean by 2015), Campus Recycling enhancement for 350 day done the week prior to Oct. 24th, and Coming up soon on Nov. 7th EAG volunteers will be cleaning up University Park.

**Collaboration:** We have collaborated with other groups on campus, the Mass Audubon, and the Worcester Public Works and Parks.

**Organization funding:** We receive a budget through school activities funding, and raise money from donations.

**Number of employees/members:** Although the number fluctuates from term to term, We have 10 very active members right now. We hope to increase those numbers over the next few semesters.

**Projected growth in the next year:** We hope to double membership and increase our budget funding to have a greater impact.

**Needs of Organization:** We need more people to be aware of what their impact is and how they can change it for the better. With that our goals will be easier set and achieved much quicker.

**Quote:** The EAG at WSC is helping our school find ways to reduce, reuse, and recycle. While also promoting 350.org and the reduction of CO2 parts per million in our atmosphere down to 350.

**Use of inventory website:** When there is a need for a volunteer group and we can help we can look into the directory. Also having a compiled list of green companies could be useful in promotion of sustainability to the community.

**Willing to be contacted:** This email address is the best place to contact the EAG.

**Willing to provide business/services to other businesses:** When possible, yes. Our services would usually consist of small amounts of volunteer hours because as you may know, college kids are usually very busy.

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## **WPI**

100 Institute Road  
Worcester, MA 01609  
508-831-5000

**Department of Environmental Studies**

**Contact information:** [envstudies@wpi.edu](mailto:envstudies@wpi.edu)

**Executive Director:** Robert Krueger Director, Environmental Studies Program, 1 508 831 5110, [Krueger@wpi.edu](mailto:Krueger@wpi.edu)

**Organization status and structure:** Non-profit; Educational

**Organization mission:** The WPI Environmental Studies Program draws upon WPI's rigorous curricula in the humanities, social and natural sciences and engineering to produce a new generation of technically proficient, culturally sensitive and policy savvy graduates who are trained as practical visionaries.

**Website:** <http://www.wpi.edu/Academics/Majors/ENV/index.html>

**Demographic region/customers served:** WPI Campus

**Goals & vision:** The Environmental Studies Program incorporates project-based learning to enhance the educational experience, engage students in community issues, strengthen professional environmental skills, and promote civic responsibility.

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**Global Awareness of Environmental Activity (GAEA):** Contacted, will follow up

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**The Green Team:** Contacted, will follow up

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### **President's Task Force on Sustainability**

**Location:** WPI, 100 Institute Road, Worcester, MA 01609-2280

**Contact information:** Liz Tomaszewski, Sustainability Coordinator, [ltomasz@wpi.edu](mailto:ltomasz@wpi.edu), 508-831-5454 or John Orr, Provost and Chair of President's Task Force on Sustainability

**Executive Director:** Provost John A. Orr

**Organization status and structure:** Task Force members are appointed by the President.

#### **Membership:**

Provost John A. Orr

CFO: Jeffrey S. Solomon

Assistant VP for Facilities: Alfredo DiMauro

VP for Student Affairs and Campus Life: Janet Begin Richardson

Director for Public Relations: Eileen Brangan Mell

Facilities Systems Manager/Sustainability Coordinator: Liz Tomaszewski

Dining Services Manager: Joe Kraskouskas

Other Faculty and Staff: Scott Jiusto, Rob Krueger, Matthew Ward, Fred Hard

Undergraduate Student Reps: Carol Okumura, Julie Bliss, Akhik Gowdar

**Organization mission:** The purpose of the President's Task Force on Sustainability is to provide leadership and coordination for WPI's campus-wide efforts in energy and resource conservation and reduction in the harmful environmental impacts of our operations, all directed toward



enhancing the long-term sustainability of WPI's activities and the environment of which we are a part. We are an educational institution; thus, these goals are interwoven with our academic goals in teaching about the practices of sustainable design and the impacts of behavioral changes, as well as in conducting research in the reduction of environmental impacts and in methods of enhancing sustainability.

The task force is drawn from, and works with, all segments of the WPI community: students, faculty, and staff. Further, since WPI is an active member of the local, regional, and world communities, the work of this task force will have impacts beyond the WPI campus.

**Website:** <http://www.wpi.edu/about/Sustainability/taskforce.html>

**Demographic region/customers served:** the WPI community and the communities that are affected by projects that are undertaken by WPI students (worldwide)

**Product or service you provide and your target audience:** education, upcoming events, information

**Goals & visions:** Please see our mission statement.

**Three recent or past projects and associated timelines:**

October 2009

WPI scores a B+ on the Sustainability Endowment Institute's Green Report Card! WPI's performance this year has improved substantially over the past two years. In 2008, WPI scored a D-, and in 2009, WPI scored a C-. "It is gratifying to see WPI's many accomplishments in sustainability - both for our campus and in our education and research activities - recognized. These simplified ratings and rankings can never tell the whole story, but given our very real accomplishments in this area, it is obviously desirable that they receive this positive public visibility. While our sustainability accomplishments have grown over that time, I believe that other major reasons for the dramatic rise in rankings relate to both the Endowment Institute's greater care in collecting data, and to our attention to effectively presenting the broad range of WPI's accomplishments." says Provost John Orr. Check out the report card at [greenreportcard.org](http://greenreportcard.org). WPI was also mentioned in an article on the topic for the New York Times.

September 2009

Mass. Clean Energy Center has awarded a U\$150,000 grant to IES - the Institute for Energy and Sustainability in Worcester. The goal of the IES is economic development and job growth in clean and alternative energy, energy conservation, and sustainability sectors. This grant will help support the start-up phase of the newly formed institute's operations. [Read More...](#)

September 2009

Recently, WPI hosted the lecture Sustaining our World: Energy for the Future, given by WPI alum and currently Sr. Vice President at ExxonMobil, Mike Dolan. Mike's book, "The Outlook for Energy, A View to 2030" is meant for general audiences and it is a rare opportunity to get a

real "view from the top" about the world's energy situation. The book will be on reserve in the library for the next few weeks. Make sure to check it out!

August 2009

Visit Professor Hart's Summer of 2009 Sustainability Blog

WPI's Professor Fred Hart spent the summer of 2009 visiting engineering offices and sites that are related to sustainability. He planned to visit over 15 states and Canada, travelling from MA - to- CA -to- Seattle -to- Alberta -to- NY -to- MA. Click to visit his blog.

**Collaboration:** IES, between Clark University and WPI, and others

**What are your organization's needs:** Consistent carbon emissions footprint, they developed one from 2003-2005 or 2006, another one that uses different parameters for the past few years, would love to have a resource to look at the whole carbon footprint, it would be helpful to put that data together, not happy with current tool: has been using tools from website that helps to calculate carbon emissions, the second one was Ty and Bond

Would love to be able to run competitions on campus between buildings, halls, etc based on per capita electricity use. Cannot do that right now because the core campus are all on one meter: do not have separate metering. It costs money to overcome that handicap: taking it one step at a time

**How would you like to see the inventory website used:**

For networking: one of the most important reasons because there are a number of different groups of sustainability engagers at institutions are MA and NE that have gotten together to share ideas. It would be great to see one central area where we can all communicate with each other. Have that vehicle to reach out to institutions that have been doing these things longer to seek advice. Also, having data on the website would help understand where institutions stand in comparison to each other (per capita information would be really useful), there are so many things we could measure and compare.

One thing in specific: recycling, On campus they have raised awareness of reducing waste and increasing recycling levels. Want to see if other schools are experiencing trends: are they doing better? Why are they doing better?

**Are you willing to be contacted:** Yes.

**Other:** It would be nice to note that WPI received a B+ on the SCI's Green Reportcard, Stars Pilot Survey (AASHE's sustainability measurement tool)

A couple names of people:

Heather Kemcheck Office of Econ and Neighborhood Dev, does a lot with green initiatives: brownfields coordinator, she was talking about initiatives to convert/re-use older buildings

John Odell

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**Holy Name High School:** Not yet contacted

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## **Appendix 3: Additional Resources**

### **Select Statewide Environmental Resources**

#### **Commonwealth of Massachusetts (For Residents)**

##### **Website:**

<http://www.mass.gov/?pageID=mg2constituent&L=2&L0=Home&L1=Resident&sid=massgov2>

**About:** Massachusetts state government website provides comprehensive information about services for residents, including environmental information.

**Services Offered:** The state offers a wide range of services and information necessary for residents about environmental information. This includes the, useful information, services and assistances about air quality, beach testing, drinking water quality, environmental health, hazardous materials, emergencies, recycling and natural resources, and regulations, compliance and enforcement, and septic & sewer issues.

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#### **Massachusetts Department of Environmental Protection**

**Website:** <http://www.mass.gov/dep/cleanup/index.htm>

The Department of Environmental Protection is the state agency responsible for ensuring clean air and water, the safe management of toxics and hazards, the recycling of solid and hazardous wastes, the timely cleanup of hazardous waste sites and spills, and the preservation of wetlands and coastal resources.

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#### **Massachusetts Executive Office of Energy and Environmental Affairs**

**Website:** <http://www.mass.gov/?pageID=eoeeahomepage&L=1&L0=Home&sid=Eoeea>

The Executive Office of Energy and Environmental Affairs EEA is the only state Cabinet-level office in the country that oversees both environmental and energy agencies. In putting energy and environment under one roof, Governor Patrick set a course toward a clean energy future, and the six agencies under EEA are following that direction with vigor, in close collaboration with the Legislature and many outside partners.

The agencies and offices of EEA also preserve land and open space, enforce pollution laws, review the environmental impact of major real estate and infrastructure developments, and provide opportunities for outdoor recreation at the parks and beaches that make Massachusetts such a wonderful place to live, work, and play. Explore this Web site to discover what the agencies of EEA do to steward our precious natural resources and create a cleaner, more

beautiful Commonwealth for residents and visitors alike -- and take advantage of all that Massachusetts has to offer

Services:

- Housing Energy Programs
  - Energy Assistance
- 

### **Massachusetts Department of Energy Resources**

**Website:** <http://www.mass.gov/doer>

Creating a Greener Energy Future for the Commonwealth - economically and environmentally, including:

- Achieving all cost-effective energy efficiencies,
- Maximizing development of greener energy resources,
- Creating and leading implementation of energy strategies to assure reliable supplies and improve relative cost, and
- Supporting clean tech companies and spurring clean energy employment

Programs:

- Home Appliance Energy Rebate Program
- 

### **The New England Clean Energy Council**

**Website:** <http://www.cleanenergycouncil.org/about/mission>

The New England Clean Energy Council's mission is to accelerate New England's clean energy economy to global leadership by building an active community of stakeholders and a world-class cluster of clean energy companies.

The Council represents a diverse set of stakeholders, including clean energy companies, venture investors, major financial institutions, local universities and colleges, industry associations, area utilities, labor and large commercial end-users. The Council's ranks include 50 clean energy CEOs, representatives from most of the region's top 10 law firms, and partners from over a dozen of the region's top venture capital firms (with a total of over \$8 billion under management). Working with our stakeholders, we develop and execute a wide array of programs in five key focus areas: Innovation, Growth, Education and Training, Adoption, & Policy.

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### **Massachusetts National Grid**

**Website:** <https://www.nationalgridus.com/masselectric/home/energyeff/energyeff.asp>

Massachusetts Residential Electric: GreenUp

Support the development of renewable energy by choosing to have all or part of your electricity generated from renewable resources, while keeping us as your electricity supplier. We will continue to issue your bill and provide customer service.

By enrolling in GreenUp and purchasing a product from one of the participating GreenUp renewable energy companies, you are:

- Supporting the development and generation of renewable energy (wind, solar, biomass, and/or hydro) in your community
- Helping to offset the environmental impact of the production of electricity from coal, gas, and nuclear energy
- Taking responsibility for your environment

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### **Massachusetts Energy Consumers Alliance**

**Website:** <http://www.massenergy.com/Index.html>

Sign up for clean, renewable electricity.

It is a non-profit organization advocating and acting in the marketplace on behalf of consumers and the environment. Our discount heating oil program has operated since 1982 and now serves 17,000 households. We also offer renewable energy options such as *New England GreenStart* and the *New England Wind Fund*. Our charitable programs benefit low-income households and other nonprofit organizations.

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### **Community Energy**

**Website:** <http://www.communityenergyinc.com/>

Sign up for clean, renewable electricity.

It is a team on a mission – a mission to supply the demand for fuel-free energy through the construction of new wind farms. Founded in 1999 with the support of environmental leaders and energy suppliers, Community Energy, Inc. (CEI) helped pioneer the U.S. market for renewable energy sales and grow the availability of wind-generated electricity.

With the commitment of our customers and partners, we are successfully bringing wind energy to new markets, and supporting project development throughout the US.

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### **Worcester Energy Task Force**

**Website:** <http://www.ci.worcester.ma.us/city-manager/energy-task-force>

**About:** In fulfillment of the City of Worcester's commitments as a participant in the Cities for Climate Protection (CCP) campaign, City Manager appointed thirteen members to Worcester's Energy Task Force in February of 2006. The Task Force consists of leaders representing local businesses, environmental organizations, municipal government and utility companies. In January 2007 Worcester's Energy Task Force completed its Climate Action Plan.

**Mission:** Create a step-by-step plan to reduce energy consumption, reduce greenhouse gas (ghg) emissions and increase the use of clean, renewable energy in a cost effective manner in the city of Worcester.

In order to meet this mission, task force members have formed three sub-committees representing the main aspects of the Climate Action Plan: Transportation, Renewable Energy, and Energy Efficiency.

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### **Home Appliance Energy Rebate Program (MA Energy Efficiency Programs)**

**Website:** <http://myenergystar.com/>

**About:** **Myenergystar.com** was created by the Northeast ENERGY STAR® Lighting and Appliance Initiative as a resource to help New Englanders save energy and money in their homes through the use of ENERGY STAR qualified products and more energy efficient behaviors. The Northeast ENERGY STAR Lighting and Appliance Initiative is a consortium of electric utilities and energy efficiency providers that includes Cape Light Compact, National Grid, NSTAR Electric, and Western Massachusetts Electric.

**Services Offered:** It provides information on discounted lighting products, energy savings tips and links to information about instant coupons & mail-in rebates on ENERGY STAR qualified compact fluorescent light bulbs, lighting fixtures, clothes washers, refrigerators, dishwashers, room air conditioners, and dehumidifiers. If New Englanders have questions about how to make their home more energy efficient, myenergystar.com will have the answers.

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### **Massachusetts residential solar energy incentives**

**Website:** <http://www.solarhome.org/massachusettsresidentialsolarenergyincentives.html>

At the federal incentive level, businesses that install solar energy systems can take advantage of accelerated depreciation rules and a 30-percent renewable energy tax credit.\*\* Beyond this, a number of additional commercial solar incentive programs are available in Massachusetts, including a production-based incentive and an excise tax deduction (see below). Together, federal and state renewable energy incentives can substantially reduce the installed costs of a commercial solar photovoltaic (PV) panels or solar water heating (solar thermal) system.

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### **Purchasing Renewable Energy**

**Website:** [http://www.green-e.org/base/re\\_products](http://www.green-e.org/base/re_products)

The mission of the Green-e program and its governing body, the Green-e Governance Board, is to:

- Bolster customer confidence in the reliability of retail electricity products reflecting renewable energy generation.
- Expand the retail market for electricity products incorporating renewable energy, including expanding the demand for new renewable energy generation.
- Provide customers clear information about retail "green" electricity products to enable them to make informed purchasing decisions.

- Encourage the deployment of electricity products that minimize air pollution and reduce greenhouse gas emissions.
- 

## **Massachusetts Clean Energy Center**

**Website:** <http://www.masscec.com>

**About:**

- The Massachusetts Clean Energy Center was created by the Green Jobs Act of 2008 with the goal of accelerating job growth and economic development in the state's clean energy industry. It serves as a clearinghouse and support center for the clean energy sector, making direct investments in new and existing companies, providing assistance to enable companies to access capital and other vital resources for growth, and promoting training programs to build a strong clean energy workforce that capitalizes on the job opportunities created by a vital new industry.

**Services Offered:**

Company Catalyst

- Currently under development
  - Workforce Development
    - Opportunities for projects that facilitate collaboration with state and local workforce development programs
    - Programs that lead to pathways towards economic self-sufficiency for low- and moderate-income communities
    - Programs that facilitate workforce development efforts that train and retain students and workers through institutes of higher education, vocational-technical high schools, and community based nonprofits.
  - Energy Efficiency Initiative
    - Focus on the ongoing development of a competent and sustainable infrastructure of program participants (i.e., installers, builders, contractors, building design professionals, etc.) trained in the fundamentals of energy efficiency and building science.
- 

## **New England Clean Energy Council**

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

**About:** The Council represents a diverse set of stakeholders, including clean energy companies, venture investors, major financial institutions, local universities and colleges, industry associations, area utilities, labor and large commercial end-users. The Council's ranks include 50 clean energy CEOs, representatives from most of the region's top 10 law firms, and partners from over a dozen of the region's top venture capital firms (with a total of over \$8 billion under management).

**Mission:** The New England Clean Energy Council's mission is to accelerate New England's clean energy economy to global leadership by building an active community of stakeholders and a world-class cluster of clean energy companies.

**Services Offered:**

- Innovation – stimulate research and development; dramatically accelerate start-up activity
  - Growth – support the in-state expansion of existing clean energy businesses
  - Education – derive data on the sector and build a strong clean energy workforce
  - Adoption – work to ensure the adoption of clean energy technologies by non-energy businesses
  - Policy – advance policy initiatives that directly support the growth of the sector
- 

**Massachusetts Technology Collaborative Renewable Energy Trust**

**Website:** <http://www.masstech.org/renewableenergy/business.html>

**About:** The Renewable Energy Trust seeks to maximize environmental and economic benefits for the Commonwealth's citizens by pioneering and promoting clean energy technologies and fostering the emergence of sustainable markets for electricity generated from renewable sources.

The Trust provides financial assistance to individuals and businesses for solar panels and wind turbines at their homes and facilities, works with communities to incorporate green design into schools, helps emerging clean energy businesses flourish in the Commonwealth, and much more.

The Trust works through a variety of programs geared towards these different groups to provide many avenues for the Commonwealth to become greener.

**Services Offered:**

- Rebates and incentives for individuals, businesses, and project developers
  - Educational programs regarding energy and energy efficiency
  - Information in energy systems
  - Public policy efforts
- 

**Northeast Sustainable Energy Association**

**Website:** <http://www.nesea.org>

**About:** The Northeast Sustainable Energy Association (NESEA) is the nation's leading regional membership organization promoting sustainable energy solutions.

The Association operates primarily in the 10 Northeastern states, from Maine to Washington DC. NESEA is a chapter of the American Solar Energy Society.

NESEA's members include a wide range of sustainable energy practitioners including architects, engineers, educators, builders, energy consultants, renewable energy manufacturers and installers, facilities managers, planners, and students.

**Services Offered:**

NESEA's largest programs focus on:



- Buildings and Renewable Energy - professional development conferences and workshops for professionals
  - K-12 Education - professional development and curriculum resources for teachers
- 

## **Solar Energy Business Association of New England**

**Website:** <http://www.sebane.org>

**About:** SEBANE is a business association of solar energy companies based, or doing business, in New England. SEBANE members include many of the finest solar energy companies in the world.

**Mission:** “The Solar Energy Business Association of New England is a business association of solar energy companies based, or doing business, in New England. Our mission is to promote the use of solar energy and the development of the solar energy industry in the region.”

**Services Offered:**

- An industry voice before state and federal officials
  - For full members a web-based membership directory listing all members and the products and services they offer
  - The opportunity to build business contacts with other solar companies
  - News and information regarding business opportunities and industry developments
  - A forum to post company news releases.
- 

## **Northeast Energy Efficiency Partnerships**

**Website:** <http://www.neep.org>

**About:** NEEP is a non-profit organization that facilitates regional partnerships to advance the efficient use of energy in homes, buildings and industry in the Northeast U.S. NEEP works to leverage knowledge, capability, learning and funding through regionally coordinated policies, programs and practices

**Mission:** Since 1996 NEEP has been facilitating regional partnerships to advance the efficient use of energy in homes, buildings and industry in the Northeast and mid-Atlantic states.

**Services Offered:**

- Regional Initiatives
  - Commercial buildings and technology Initiative
  - High efficiency home performance
  - Solid state lighting initiative
  - Workforce development
- Public Policy
  - Appliance efficiency standards
  - High performance buildings
  - Building energy codes
  - Policy outreach and analysis

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## **Resources For Entrepreneurs and Start-up Businesses**

### **Worcester Chamber of Commerce**

**Website:** <https://www.worcesterchamber.org/>

**About:** Largest chamber in New England, Delivers valuable programming, support services, and growth opportunities, Professional networking through sponsored events and programs

**Mission:** “To support existing businesses and promote economic development in the Worcester region by being a bold, strong, articulate and effective advocate. The Chamber believes that a strong business community is a catalyst to a dynamic area in which to live.”

#### **Services Offered:**

- economic development
- site search assistance
- business assistance
- public policy advocacy
- networking and educational opportunities.

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### **City of Worcester, Economic Development Division**

**Website:** <http://www.worcestermass.org/business-development>

**About:** Offers assistance programs to interested developers and business owners, providing a link between available local, state, and federal incentives and loan programs and the City’s comprehensive employment plan and training network through the Workforce Development Division.

#### **Services Offered:**

- Workforce Training
  - Worcester Workforce Central
- Financial Assistance
  - Microloan Program
  - Storefront Improvement Grant Program
  - Façade & Awning Incentive Grant Program
  - Economic Development Incentive Program (EDIP).
  - HUD Section 108 Loan Guarantee Program
  - Quinsigamond Village Economic Revitalization
- Technical Assistance
  - 10 Step Start Up
  - Small Business Guide
  - Worcester Regulations and Licensing Guide for Start-Up Businesses –
  - Site Search Assistance
  - Business Retention
  - Creative Industries.
- Partnerships

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## **Central Massachusetts Regional Employment Board**

**Website:** <http://www.centralmassreb.org>

**About:** The Central Massachusetts Regional Employment Board (CMREB) is a volunteer body of diverse stakeholders responsible for policy, oversight and coordination of federal and state workforce development initiatives and job training programs. Their Board is made up of individuals from the private sector, labor, education, community based organizations and a number of state agencies. A majority of Board members and the Board Chair are from the business community to help ensure they are employer-led and responsive to employer needs. The CMREB is one of 16 Workforce Investment Boards throughout Massachusetts, charged with overseeing and implementing local workforce development initiatives. The CMREB serves Worcester and 37 surrounding communities in Central Massachusetts. The purpose of the CMREB is to develop a system that ensures individuals have the skills necessary to meet the demands of area employers, and to also ensure that employers have access to these skilled individuals.

### **Mission:**

“The Central Massachusetts Regional Employment Board is a public/private partnership, serving needs of both employers and employees. The board collaboratively develops and implements strategies for job readiness and skills advancement, leveraging community resources that promote economic wellness within the region's 38 cities and towns.”

### **Services Offered:**

- Overseeing the Workforce Central Career Center which has branches in Worcester, Southbridge, and Milford.
- Developing the local workforce strategic plan.
- Allocating federal and state training funds to companies and community based organizations.
- Assisting with state training fund applications and grants that are given to local companies to help train or retrain their employees.

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## **SCORE – Councilors to America’s Small Business**

**Website:** <http://www.score.org/index.html>

**About:** SCORE "Counselors to America's Small Business" is a nonprofit association dedicated to educating entrepreneurs and the formation, growth and success of small business nationwide. SCORE is a resource partner with the U.S. Small Business Administration (SBA).

SCORE is headquartered in Herndon, VA and Washington, DC and has 364 chapters throughout the United States and its territories, with 12,400 volunteers nationwide. Both working and retired executives and business owners donate time and expertise as business counselors. SCORE was founded in 1964.

They are America's premier source of free and confidential small business advice for entrepreneurs.

**Services Offered:**

- Mentoring advice 24/7 Ask SCORE online.
  - In Person Mentoring 364 offices. Find an office.
  - Low-cost workshops nationwide. Find an office.
  - "How to" articles and business templates.
  - Online workshops and learning.
- 

**WPI Venture Forum**

**Website:** <http://www.wpiventureforum.org>

*About:* The WPI Venture Forum serves entrepreneurs seeking to start their own technology-based business. It also serves sponsors, service providers, and investors (seeking pre-startup and early stage technology opportunities) by providing knowledge through programs and a venue in which to network.

Directed by a volunteer Executive Board comprised of regional business and service organization leaders, many of whom are WPI alumni, the WPI Venture Forum is a program of the Collaborative for Entrepreneurship & Innovation in the Department of Management at Worcester Polytechnic Institute.

Membership consists of entrepreneurs, investors, service providers, researchers, inventors, and WPI faculty, alumni, and students.

**Mission:**

“Our mission is to deliver educational content and expertise that helps foster economic growth in the technology sector of Central Massachusetts and surrounding regions. Audience members have the opportunity to learn from and connect with experts in a wide range of industries and disciplines while sharing their own knowledge.”

**Services Offered:**

WPI Venture Forum activities include:

- Monthly Programs and a concurrent Newsletter
  - Free Networking Events
  - Weekly Radio Program
  - An annual Breakfast event
  - An annual Business Plan Contest
-

## **Clark University – Central Massachusetts Small Business Development Center**

**Website:** <http://www.clarku.edu/Offices/sbdc>

**About:** Provides free and confidential one-to-one management advice and technical assistance to prospective and existing small businesses.

The center's business advisors assist clients in developing their business plans, marketing plans, financials, cash flows and other areas critical to ensure a successful venture. They will also act as a common access point for financing, and can recommend or even introduce owners to the appropriate federal, state or local financing sources. They also work actively with local banks and the SBA, especially when SBA loan guarantees may be required to finance the venture or expansion. Their clientele includes start-up, early stage, expanding and troubled businesses.

### **Services Offered:**

- **Business Advising Services:**
  - Feasibility Studies and Start-up Issues
  - Business Plan Development
  - Cash Flow Analysis
  - Marketing and Sales Strategies
  - Financial Plan Development
  - Financing Options and Loan Packaging
  - Buy/Sell and Valuation Assistance
  - Technology and E-commerce Assistance
  - Equity Business Plans
- **Financing**
  - The MSBDC at Clark University can help you negotiate the financial challenges faced by start-up and expanding businesses.
  - Work with banks and other lending organizations, both conventional and non-conventional sources, to assist in putting together financial projections
  - The MSBDC can assist with assembling financial statements, preparing loan applications and securing the best financing options for your business.

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## **State**

### **Commonwealth of Massachusetts (For Business)**

#### **Website:**

<http://www.mass.gov/?pageID=mg2constituent&L=2&L0=Home&L1=Business&sid=massgov2>

**About:** Massachusetts state government website contains comprehensive information regarding conducting business within Massachusetts.

**Services Offered:** The state offers a wide range of services and information necessary for business. This includes business regulations, how to establish a business, tax law, and workplace regulations.

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## National

### US Department of Commerce

**Website:** <http://www.commerce.gov/>

**About:** Official US Government department overseeing commerce.

**Mission:** “The historic mission of the Department is "to foster, promote, and develop the foreign and domestic commerce" of the United States. This has evolved, as a result of legislative and administrative additions, to encompass broadly the responsibility to foster, serve, and promote the Nation's economic development and technological advancement. The Department fulfills this mission by:

- a. Participating with other Government agencies in the creation of national policy, through the President's Cabinet and its subdivisions.
- b. Promoting and assisting international trade.
- c. Strengthening the international economic position of the United States.
- d. Promoting progressive domestic business policies and growth.
- e. Improving comprehension and uses of the physical environment and its oceanic life.
- f. Ensuring effective use and growth of the Nation's scientific and technical resources.
- g. Acquiring, analyzing, and disseminating information regarding the Nation and the economy to help achieve increased social and economic benefit.
- h. Assisting states, communities, and individuals with economic progress.”

**Services Offered:** Commerce Bureaus:

- Bureau of Industry and Security
- Economics and Statistics Administration
- Bureau of the Census
- Bureau of Economic Analysis
- Economic Development Administration
- International Trade Administration
- Minority Business Development Agency
- National Institute of Standards and Technology
- National Oceanic & Atmospheric Administration
- National Technical Information Service
- National Telecommunications and Information Administration
- Patent and Trademark Office

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## Appendix 4: Additional Local Environmental Resources (Green Homes):

### New England Wind Fund

<http://www.newenglandwind.org/wind/home.php>

It provides the financial support needed for wind project development. Mass Energy will be able to secure contracts with wind projects only with your support. New England Wind Fund is the

only tax-deductible, clean energy option in Massachusetts available to all citizens. Learn more about the benefits of joining.

Mass Energy is participating in Clean Energy Choice, a program of the Massachusetts Technology Collaborative (MTC), a public agency of the Commonwealth and administrator of the Renewable Energy Trust. Clean Energy Choice encourages the purchase of renewable energy certificates from renewable energy facilities that have been defined as “new” by the Commonwealth of Massachusetts. *New England Wind Fund* allows you to make a worthy contribution, at a reduced cost, towards the development of new renewable energy.

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### **Worcester, Massachusetts Solar Panel Installers**

<http://www.findsolar.com/Directory/MA/worcester-solar-panel-installers.aspx>

Our mission is to help home and business owners educate themselves on Solar Power and Renewable Energy projects, and to help find qualified professionals, who can design, install and service solar energy systems.

We provide a host of online tools, calculators, and information as well as free access to professional consultation services. Links to our most popular resources are below:

- Solar Power Calculator
  - Solar State Rebates and Incentives
  - Solar Power FAQ
- 

### **Energy Efficient Appliance:**

#### **Percy's Appliance**

<http://www.percys.com/default.aspx>

Percy's mission is to provide our customers with the finest, professional and satisfying shopping experience in our industry. We accomplish this by providing exceptional customer service before, during, and after the sale. In addition to having the very best, most knowledgeable team of employees and quality brand name appliances and electronics.

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#### **Sclamos Appliance**

<http://shop.sclamos.com/>

Sclamos is a private company categorized under Electric Household Appliances and located in Worcester, MA.

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### **Carbon Offset:**

#### **Carbonfund.org**

[http://www.carbonfund.org/site/pages/about\\_us](http://www.carbonfund.org/site/pages/about_us)

Carbonfund.org is leading the fight against global warming, making it easy and affordable for any individual, business or organization to reduce & offset their climate impact and hasten the transition to a clean energy future. Carbonfund.org achieves its goals through:

- Climate change education
  - Carbon offsets and reductions
  - Public outreach
- 

## **Terrapass**

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

TerraPass is the brainchild of Dr. Karl Ulrich at the University of Pennsylvania. Along with 41 of his students, Karl launched TerraPass in October, 2004 as a way to help everyday people reduce the climate impact of their driving. Within its first year, TerraPass registered over 2,400 members, reduced 36 million pounds of CO<sub>2</sub>, and earned countless national press and blog articles.

TerraPass has grown steadily over the past few years. We have a small staff in an office near the Bay Bridge in downtown San Francisco. More importantly, we've helped individuals and businesses to reduce over 1 billion pounds of carbon dioxide.

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## **Home Improvement**

### **LEED for Homes**

<http://www.usgbc.org/Showfile.aspx?documentID=2352>

LEED for Homes is a green home rating system for ensuring that homes are designed and built to be energy and resource efficient and healthy for occupants. LEED can be applied to single and multi-family homes and is intended for both market-rate and affordable housing. The nonprofit

organization U.S. Green Building Council (USGBC) originally developed the LEED green building rating system in 2000 for new commercial construction. Following LEED's success in the commercial sector, USGBC began the pilot test of LEED for homes in August 2005. There are currently over 8,200 homes across the U.S. involved in the LEED for Homes pilot program and 336 that have already been LEED certified as a green home.

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### **DPW Waste Recycle:**

<http://ci.worcester.ma.us/dpw/trash-recycling>

DPW&P's Trash & Recycling Division assures proper disposal of residential solid waste efficiently and economically. In addition, recycling bins are collected every week on your regular trash collection day. Citizens of Worcester can dispose of household waste via our



Yellow Trash Bag program by purchasing official City of Worcester trash bags at various local retailers throughout the city.

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## **Water Conservation:**

### **Massachusetts Water Resources Authority**

Tips for Saving Water at Home

<http://www.mwra.com/comsupport/conservation/hometips.htm>

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## **Hybrid Vehicles:**

### **Toyota**




<http://harr.com/default.asp?newused=0>

From here, you can choose the store you would like to go into and review the details of our current model lineup. You can also view our current vehicle incentives, get pre-approved for an auto loan, and even request a price quote. If you would like to arrange for vehicle service or visit our parts department, you can do that from our websites as well. We are committed to serving our friends and customers and look forward to hearing from you!



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## **Worcester Area Home Builders**


### **Committed to 100% ENERGY STAR Homes Builders**

<b>Name</b>	<b>Builder Type</b>	<b>Partner Since</b> 	<b>Homes Qualified in Worcester during Oct 2008 - Sep 2009*</b>	<b>Homes Qualified in Worcester Total*</b>	<b>Homes Qualified Grand Total*</b>
<b>WGB Construction Company, LLC</b> 508-478-0961 	Site-Built Homes	2006	0	0	12
<b>R S Lucier Construction</b> 978-582- 	Site-Built Homes	2008	4	4	4


## Committed to 100% ENERGY STAR Homes Builders

Name	Builder Type	Partner Since 	Homes Qualified in Worcester during Oct 2008 - Sep 2009*	Homes Qualified in Worcester Total*	Homes Qualified Grand Total*
0189					
<b>Worcester East Side CDC</b>  508-799-6942	Site-Built Homes, Owner/Builder	2008	6	37	37


## More ENERGY STAR Builder Partners

Name	Builder Type	Partner Since 	Homes Qualified in Worcester during Oct 2008 - Sep 2009*	Homes Qualified in Worcester Total*	Homes Qualified Grand Total*
<b>Gallo Builders, Inc.</b> 508-829-0676	Site-Built Homes	1999	22	214	214
<b>Northwind Partners, LLC</b> 508-294-8854	Site-Built Homes	2000	5	96	192
<b>Country Builders, Home Inc.</b> 508-626-5732	Site-Built Homes	2002	0	6	50
<b>Pine Manufactured Homes, Grove Inc.</b>	Manufactured Homes	2005	2	11	1,337


## More ENERGY STAR Builder Partners

Name	Builder Type	Partner Since 	Homes Qualified in Worcester during Oct 2008 - Sep 2009*	Homes Qualified in Worcester Total*	Homes Qualified Grand Total*
570-345-2011					
<b>BMK Contracting Inc</b> 978-833-0338	Site-Built Homes	2006	0	1	1
<b>Phillips Builders LLC</b> 978-534-4760	Site-Built Homes	2006	1	6	6
<b>Greater Gardner Community Development Corporation</b> 978-630-2975	Developer	2007	New Partner	New Partner	New Partner
<b>Green-Haus Development</b> 617-592-7902	Site-Built Homes, Developer	2007	3	3	3
<b>Keystone Development Corporation</b> 508-229-7827	Site-Built Homes, Developer	2007	10	16	18
<b>Two Storey Building</b> 617-438-0313	Site-Built Homes	2007	1	1	2
<b>A.J. Lane Development Corporation</b>	Manufactured Homes,	2008	New Partner	New Partner	New Partner


## More ENERGY STAR Builder Partners

Name	Builder Type	Partner Since 	Homes Qualified in Worcester during Oct 2008 - Sep 2009*	Homes Qualified in Worcester Total*	Homes Qualified Grand Total*
508-879-3600	Site-Built Homes				
<b>Almik Construction Co., Inc.</b> 508-726-5224	Site-Built Homes	2008	0	0	1
<b>Brendon Homes</b> 508-485-3999	Site-Built Homes	2008	New Partner	New Partner	New Partner
<b>EnergySmart Builders, Inc.</b> 774-670-9898	Site-Built Homes	2008	New Partner	New Partner	New Partner
<b>GAC Homes, Inc.</b> 978-618-8943	Site-Built Homes	2008	3	3	3
<b>Woodmeister Master Builders, Inc.</b> 774-345-1000	Site-Built Homes	2008	0	0	1
<b>Eastland Partners</b> 508-647-1919	Site-Built Homes	2009	4	4	4
<b>Envision Homes, Inc.</b> 508-393-5551	Site-Built Homes	2009	New Partner	New Partner	New Partner
<b>Iron Horse Construction, LLC</b> 978-582-7003	Site-Built Homes	2009	New Partner	New Partner	New Partner

## More ENERGY STAR Builder Partners

Name	Builder Type	Partner Since 	Homes Qualified in Worcester during Oct 2008 - Sep 2009*	Homes Qualified in Worcester Total*	Homes Qualified Grand Total*
<b>Moose Crossing, LLC</b> 774-696-9955	Site-Built Homes	2009	New Partner	New Partner	New Partner
<b>Savoie Modular Homes, Inc.</b> 508-869-6431	Manufactured Homes, Site-Built Homes	2009	New Partner	New Partner	New Partner

## Energy and Environmental Ratings service

Name	Partner Since 	Homes Qualified Oct 2008 - Sep 2009*	Homes Qualified State Total*	Homes Qualified Grand Total*
<b>Conservation Services Group - New England</b> 508-836-9500 Barnstable Town; Boston-Cambridge-Quincy; Providence-New Bedford-Fall River; Worcester; Other Areas in Massachusetts	1996	1,111	12,257	17,453
<b>GDS Associates - Home Energy Ratings of New England</b> 603-656-0336 Barnstable Town; Boston-Cambridge-Quincy; Providence-New Bedford-Fall River; Springfield; Worcester	2005	1,531	2,027	2,880
<a href="#"><u>Advanced Building Analysis, LLC</u></a> 978-270-3911	2007	120	164	164

Boston-Cambridge-Quincy; Worcester				
<b>Building Diagnostics</b> 888-503-2233 Barnstable Town; Boston-Cambridge-Quincy; Providence-New Bedford-Fall River; Worcester	2008	163	178	178
<b><u>Infrared Diagnostic, LLC</u></b> 978-440-9900 Boston-Cambridge-Quincy; Worcester	2008	New Partner	New Partner	New Partner
<b>SGE Group</b> 800-653-4270 Worcester	2008	New Partner	New Partner	New Partner
<b><u>Jack of Many Trades, LLC</u></b> 978-368-7606 Worcester	2009	New Partner	New Partner	New Partner