

Biofuel and Renewable Energy Task Force Report

March 1, 2004

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Governor Bob Taft
Ohio General Assembly

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**Biofuel and Renewable Energy Task Force
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Biofuel and Renewable Energy Task Force

I. Executive Summary

In Ohio, there is a critical need for the State Legislature and other policy makers to vigorously encourage *new* and *expand existing* biofuel and renewable energy industries. According to the Biofuel and Renewable Energy Task Force, renewable energy financial assistance and other incentives will stimulate local economies, create high-tech jobs, reduce dependency on foreign oil and energy price volatility, reduce fossil fuel pollution and create a diverse portfolio of electric generating capacity.

The Task Force held meetings on November 19, December 17, February 4, February 20 and held public hearings on January 15 and 16. The public hearings resulted in testimony from 17 industry experts and the submittal of written testimony from 5 organizations. In addition, two sub groups, agriculture/ethanol and renewable energy, held discussions and researched specific issues related to biofuel and renewable energy. It was clear from the beginning that such a wealth of information existed on the topics that the entire group could quickly suffer from information overload. Consequently, the Chair stressed the importance to be brief and succinct regarding the report and recommendations. Members also felt strongly about the need for an ongoing and continuing dialogue on the subject at hand and not simply the creation of a report to "sit on a shelf."

As a result of the testimony, discussions with industry experts and the evaluation of pertinent information, the Task Force developed specific recommendations as included in a separate section of the report. Of critical importance, is for Ohio to continue the process of developing and creating an ongoing and continuous effort to promote biofuel and renewable energy industries. Therefore, this report should be only the beginning of an aggressive approach to fostering biofuel and renewable energy in Ohio.

II. Introduction

Governor Taft signed Amended Substitute House Bill 87 of the 125th General Assembly on March 31, 2003. Section 25 of the bill created the Biofuel and Renewable Energy Task Force that consists of eight members as follows:

- Two members of the Senate appointed by the President of the Senate, one of whom shall be a member of the majority party and one of whom shall be a member of the minority party;
- Two members of the House of Representatives appointed by the Speaker of the House of Representatives, one of whom shall be a member of the majority party and one of whom shall be a member of the minority party;
- One member appointed by the Governor;
- One member appointed by the Director of Agriculture;
- One member appointed by the Director of Development;
- One member appointed by the Chairperson of the Ohio Air Quality Development Authority.

The following individuals were subsequently appointed to the Task Force:

Mike Wagner, Ohio Corn Growers Association, Chair
Senator Teresa Fedor
Senator Randy Gardner
Representative Steve Reinhard
Representative Mike Skindell
Bill Graves, Ohio Department of Development
Jim Hiendlmayr, Bio-Gas Technologies
Mark Shanahan, Ohio Air Quality Development Authority

The Task Force was charged with submitting a report to the General Assembly and the Governor by March 1, 2004. The report must consist of the following items:

- Provide an overview of the industries of biofuel and other renewable energy sources in this state;
- Describe the condition of those industries in this state and describe state programs that are providing aid or financial assistance to those industries;
- Provide a comparison of the status of the industries of biofuel and other renewable energy sources in this state and of those of the surrounding states; and
- Include recommendations to the General Assembly for expanding the industries of biofuel and other renewable energy sources in this state and for providing methods to fund biofuel and renewable energy projects or studies.

The Task Force took their responsibility seriously and diligently pursued the subject at hand. Research of existing reports and information could very well have resulted in an excessive amount of documents to disseminate. Consequently, the focus of the task force was to not "reinvent the wheel" but to systematically and programmatically evaluate pertinent information with an eye towards a few key recommendations.

The Task Force operated within the framework of two sub groups, Agriculture/Ethanol and Renewable Energy. The full Task Force met on November 19, December 17, February 4 and February 20. The Task Force held Public Hearings on January 15 and 16 with testimony from 17 individuals representing a wide variety of organizations and the submittal of written testimony from five organizations. Specifically, recommendations were received from private industries, state and national trade associations, environmental groups, utility companies, universities and advocacy groups. The Task Force seriously considered all of the testimony and supplemental information to determine a recommended course of action.

The report is organized in a format to meet the criteria as specified in the aforementioned legislation. Following this introduction is a list of specific recommendations from the Task Force. Task Force recommendations are focused on specific items that can be addressed in the short term. The recommendations are, therefore, not exhaustive but serve as a starting point for Ohio to be positioned as a leader in the biofuel and renewable energy industry.

The balance of the report consists of a section on background information describing specific disciplines, the current status in Ohio and job creation potential of the industry. The next section lists current biofuel and renewable energy industries in Ohio. This is followed by a matrix of state and federal incentives and a matrix of incentives provided in other states. Specifically, incentive information is included from California, Iowa, Pennsylvania, Michigan, Illinois, West Virginia, Kentucky and Indiana.

An Appendix to the report is included to provide additional information pertinent to biofuel and renewable energy. Appendix A lists the individuals testifying and a summary of their recommendations indicating a wide and varied approach the state could employ. Appendix B provides a list of pertinent reports that an interested reader could peruse to obtain more detailed information. Appendix C is a quick snapshot of the universities in Ohio currently researching the topics but should by no means be considered exhaustive. Appendix D provides a listing of organizations and sources for additional information and/or experts in the topic areas. Appendix F provides examples of recent state initiatives in Pennsylvania and Colorado that demonstrates commitments to renewable energy in these states.

III. Recommendations* from the Task Force

• Continuing Biofuel and Renewable Energy Focus

The legislature should create a Legislative Council on Sustainable Energy Development to continue ongoing research for Ohio's biofuel and renewable energy industries and to make additional recommendations to the legislature regarding sustainable energy development in Ohio. The council should consist of five voting members to be appointed as follows:

- two members of the senate, appointed by the president of the senate, one from each political party;
- two members of the house of representatives appointed by the speaker of the house of representatives, one from each political party;
- one member appointed by the governor; and
- a number of ex officio non voting members at the discretion of the legislature representing the following entities: Ohio Department of Development, Ohio Air Quality Development Authority, Public Utilities Commission of Ohio, Ohio Department of Agriculture, Ohio Consumers Counsel, and other pertinent stakeholders as determined by the legislature.

Although several task force members are in favor of a renewable portfolio standard for the state, in order to reach collaborative consensus, the task force recommends the following:

- Within twelve months of creation of the Legislative Council on Sustainable Energy Development the council must provide the legislature and the Governor's Office with a detailed analysis of a renewable portfolio standard, the possible effects such a standard would have in Ohio, and recommendations on such a policy for the state.

• Renewable Energy Use in State Facilities

- The state should implement a renewable energy-purchasing program requiring a certain percentage of energy purchased by the state of Ohio to come from renewable energy resources.
- The state should set a standard to reduce state government energy use.

• Education

- The state should encourage and promote the education of school children (K-12) regarding renewable energy in order to understand the benefits such as reduced pollution, reduced dependence on foreign sources of energy, and job creation and energy price stability.

- The state should continue to encourage research and development for biofuel and renewable energy.
 - The state should provide graduate fellowship grants as incentives for human capital investment to link research centers and renewable energy programs.
 - The state should promote a renewable energy curriculum for two year and four year higher education institutions.
- **High Performance Buildings**
 - The state should encourage energy efficiency and renewable energy usage for state owned buildings including new school construction.
 - The state should conduct a feasibility study on the use of the Leadership in Energy and Environmental Design (LEED) rating system for building construction.
- **Financial Incentives for Renewable Energy including Biofuels**
 - The Ohio General Assembly should establish a Renewable Energy (including Ethanol and Biofuel) Facility loan guarantee program. Under the program the Ohio Air Quality Development Authority would guarantee for up to fifteen years up to eighty-five percent of the sum of the principal and interest on a loan made under Chapter 3706 of the Revised Code for the sole purpose of assisting the financing of Renewable Energy (including Ethanol and Biofuel) Facilities.
 - The state should establish a renewable energy production tax credit.
 - The state should indefinitely extend the current rider on retail electric distribution service rates that fund the Energy Efficiency Revolving Loan Fund.
 - The state should consider reforming state tax policy to give fair consideration and parity to Ohio-based biofuel and renewable energy industries.
- **Regulatory Oversight**
 - The Public Utilities Commission of Ohio (PUCO) should require regulated electric distribution utilities to disclose yearly investments in renewable energy development.
 - No electric utility rate case should come before the PUCO unless there is a renewable energy initiative on the part of the utility.

- The PUCO should require regulated electric distribution utilities to provide an inventory of renewable energy assets.
 - The PUCO should create standard interconnection rules for distributed generation up to 10 megawatts (MW) of electric power.
- **Biofuel**
 - The state should require use of E85 (85% ethanol - 15% unleaded gasoline blend) for state owned flexible fuel vehicles and transition to an entire state flexible fuel vehicle fleet.
 - The state should require that for all diesel fuel purchased for state vehicles that efforts be made to purchase and use biodiesel.
 - The state should strive to operate state owned non-flexible fuel vehicles with a 10% ethanol blend fuel.
 - It is recommended that the Ohio Environmental Protection Agency (OEPA) in its non-attainment strategy require that fleet vehicles in non-attainment areas use E85 fuel.
 - The state should create a fund to be administered by the Ohio Department of Development to provide grants for ethanol production facilities having at least 51% Ohio farmer ownership.
 - The state legislature should create a fund to be operated by the Ohio Department of Development to provide grants for renewable energy production.
 - The state legislature should create a fund to be operated by the Ohio Department of Development to provide grants for renewable energy industries.
 - The state should promote federal Farm Bill funding opportunities and provide matching funds from the Energy Efficiency Revolving Loan Fund.

* Renewable energy as defined by the task force, included in the recommendations, consists of but should not necessarily be limited to wind, solar, biofuel (ethanol and soy), bio-gas, landfill gas, hydropower, and geothermal.

IV. Background Information

According to the U.S. Energy Information Administration's (EIAs) latest available summary (1999), Ohio is ranked third in the nation in energy consumption, consuming 4,323.4 trillion Btu, or 4.5% of total U.S. energy consumption. Ohioans spend \$25.6 billion on energy, fifth in the nation for energy expenditures. The EIA reports that 86.3 percent of Ohio's electricity generated is from coal supplies; 0.5 percent from natural gas supplies; 11.5 percent from nuclear power. Renewable resources, excluding hydroelectric, represent a mere .2 percent of electricity generated.

Renewable Energy

Renewable energy is clean efficient energy that is not dependent on sources that will one day be depleted. Specifically, wind and solar energy are both excellent ways of producing energy without creating waste, or wasting resources. It has been shown that by contributing to 20 percent of the total energy use in the United States, renewable energy could:

- Save consumers a least \$4.5 billion by 2020 by stabilizing market prices;
- Contribute to substantial job creation;
- Generate more than 1 billion dollars of revenue from farmers, landowners, and others previously left out of the energy profit loop, and;
- Reduce global warming pollution from power plants by nearly one-fifth.

Renewable energy can provide important benefits to the State as well as local communities. The key benefits are:

- *Environmental Benefits* - Most renewable-energy technologies are clean sources of energy that have a much lower environmental impact than conventional-energy technologies.
- *Sustainability Benefits* - Renewable energy by definition is replenishable. Renewable energy will be available for our children's children. Other sources of energy are finite and will someday be depleted or become too expensive to use.
- *Economic Benefits* - Most renewable energy investments, unlike investments on costly imports, are usually made within the United States - frequently in the same state and often in the same town as the users of energy. The result is that energy dollars stay home to create jobs and fuel local economies, rather than going overseas. Ohio farmers may find additional benefits to renewable energy in the form of production of crops for processing into biomass fuels and land leases for the production of wind energy.
- *Security Benefits* - Our national dependence on foreign oil supplies leaves us vulnerable to supply disruptions and price fluctuations and complicates our foreign relations.
- *Price Stability Benefits* - Smart investors typically acquire a portfolio of stocks and bonds to reduce risk. Including renewables as part of Ohio's power supply portfolio would do the same by protecting consumers from fossil fuel price shocks and supply shortages. The 2001 California energy crisis occurred in part because of a sharp rise in the cost of natural gas, which in turn led to spikes in wholesale electricity prices. During the

2002-2003 winter, natural gas prices surged to record highs across the country - in some places tripling. Renewable energy producers, in contrast, are not subject to commodity price spikes.

Biofuel

Biofuel is a gas or liquid fuel made from plant material (biomass), which includes wood, wood waste, wood liquors, peat, railroad ties, wood sludge, spent sulfite liquors, agricultural waste, straw, tires, fish oils, tall oil, sludge waste, waste alcohol, municipal solid waste, landfill gases, other waste, and ethanol blended into motor gasoline.

- Ethanol is an alcohol-based alternative fuel produced by fermenting and distilling starch crops that have been converted into simple sugars. Feedstocks for this fuel include corn, barley, and wheat. Ethanol can also be produced from "cellulosic biomass" such as trees and grasses and is called bioethanol. Ethanol is most commonly used to increase octane and improve the emissions quality of gasoline.
- Biodiesel (fatty acid alkyl esters) is a cleaner-burning diesel replacement fuel made from natural, renewable sources such as new and used vegetable oils and animal fats. Just like petroleum, biodiesel operates in compression-ignition engines. Blends of up to 20% biodiesel can be used in nearly all diesel equipment. Low levels generally do not require any engine modifications. Higher blends, even pure biodiesel can be used in many engines built since 1994 with little or no modification. Ethanol-diesel blends (e-diesel) contain up to 15% ethanol and an additive known as an emulsifier. Ethanol-diesel blends have the potential to displace imported petroleum and significantly lower diesel particulate emissions. Soy-diesel is a blend of filtered and clarified crude soybean oil with diesel fuel and can contain up to 20% soybean oil. Generally, soy-diesel must be converted to biodiesel in a process called transesterification (adding alcohol to the oil) in order to be used effectively in a compression ignition engine.
- Methanol also known as wood alcohol was originally produced from wood. Today most methanol is produced from natural gas. Methanol is an excellent hydrogen carrier for fuel cell applications. Research is proceeding to produce methanol from other biomass sources.

Solar

Solar energy is provided by the sun and is constantly replenished. When used to create power, solar energy will not produce harmful pollution. Solar energy may be used passively to heat and light buildings, or actively to generate electricity (solar photovoltaics) or heat (solar thermal).

- Enough sunlight falls on the Earth's surface each minute to meet world energy demand for an entire year.
- Every day, more energy from the sun reaches the Earth than would be consumed by the global population in 27 years.
- As prices for solar technology go down, efficiencies go up, tax incentives and rebates increase in impact, reliability of standard electrical generation fluctuates, and increased

awareness of the dangers of fossil fuel combustion become widespread, the use of solar panels may increase greatly.

- During operation, PV and solar thermal technologies produce no air pollution, little or no noise, and require no transportable fuels.

State Activities:

- Ohio manufactures and utilizes solar energy today. First Solar is located in Perrysburg, Wood County, and is a major manufacturer of solar photovoltaic panels.
- The Athens City-County Health Department will install a utility-interactive 2.8 kW solar photovoltaic system as a component of the County's emergency preparedness plan. The PV system will have batteries for backup power in emergency situations while producing clean electric everyday.
- The City of Cleveland will install a utility-interactive 530 kW solar photovoltaic system at one of its four water treatment plants. The large PV system will supply clean electricity for a portion of the water-pumping load at the selected water plant ensuring water during times of black out.
- CSG Services, Inc. will install at least a 13 kW solar photovoltaic system on the roof of a BJ's Wholesale Club in the Cleveland area. BJ's Wholesale Club will purchase the electricity from the PV system at competitive rates and Green Mountain Energy will purchase the Renewable Energy Credits. An innovative metering and monitoring package will provide system performance data on the web.
- Doty & Miller Architects in Cleveland will install a utility-interactive 2.2kW building integrated solar photovoltaic system on their office building, which was recently renovated to green building specifications. Solar powered lighting will also be installed in the parking lot.

Wind

Wind energy is the world's fastest growing energy resource. In use for centuries in Europe, wind is now finding increasing use in the United States and other nations. Wind turbines, both large and small, produce electricity for utilities, homeowners, and communities. Wind energy also brings strong and sustainable economic development opportunities in both project installations and manufacturing potential. (Facts provided by the American Wind Energy Association)

- World's fastest growing energy source on a percentage basis.
- More than 2,000 megawatts of wind generation—enough to serve more than 600,000 average American homes—were installed in the United States in the past two years alone.
- Sales of small residential turbines are growing.
- Wind is "inflation" proof—once a wind plant is built, the cost of energy is known, and is not affected by fuel market price volatility.
- Wind plants can be built quickly to respond to electricity shortages.
- A single wind turbine can provide \$2,000-\$4,000/year or more in farm income even though only 3-5% of the land within wind farm boundary is used for turbines and access roads.

- A single 1-MW wind turbine displaces 2,000 tons of carbon dioxide each year (equivalent to planting a square mile of forest), based on the current average U.S. utility fuel mix.
- 100,000 MW of wind energy will reduce CO2 production by nearly 200 million tons annually.
- No pollution impact on people, wildlife, or habitats.
- Inexhaustible supply—U.S. winds could generate, more electricity in 15 years than all of Saudi Arabia's oil, without being depleted.

State activities:

- Bowling Green in Wood County installed Ohio's first utility-scale wind turbines in the fall of 2003. The project is rated at 3.6 MW, will produce 6.9-million kilowatt-hours annually, enough to power 785 homes.
- The Ohio Wind Working Group was formed in 2003 and is a broad-based coalition of members tasked with developing a smart wind energy development plan for the State of Ohio.
- The Ohio Department of Development's Office of Energy Efficiency plans to have a new high resolution wind energy map completed in the spring of 2004. The new map will be accessible on the Internet and will have full GIS capability.
- The Ohio Wind Power Conference is scheduled for November 9-10, 2004 in downtown Cleveland and will bring together industry experts, developers, manufacturers, and other interested parties to promote wind energy in Ohio.
- The Dull Homestead, in Montgomery County, will install six utility interactive 10kW wind turbines for its farming operations. The farm is involved in a complete energy audit and inventory program offered through Dayton Power & Light and will be implementing the recommendations along with the wind energy system.

Biomass

Biomass is any bio-based renewable resource. Examples are wood residues, agricultural grains, crop residues, energy crops, municipal wastewater, solid municipal cellulose waste, food and beverage processing solid and liquid waste, and livestock and poultry waste.

- Hydrogen gas is a clean and sustainable form of energy that can be used in mobile or stationary applications. Research is currently being conducted to investigate the feasibility of producing hydrogen directly from biomass. Hydrogen as a source of energy for fuel cells has the potential to solve several major challenges by generating electricity without combustion or pollution.
- Methane is a hydrocarbon that is a primary component of natural gas. Methane is produced during the anaerobic (i.e., without oxygen) decomposition of the organic material in livestock and poultry manure or from direct gasification technologies. Wastewater treatment can also produce methane if organic constituents in the wastewater are treated anaerobically.
- LFM (Landfill Methane) also referred to as landfill gas (LFG) is commonly extracted from municipal landfills. It can be used as a

hydrogen source or can be combusted directly for electrical power generation.

Other Resources

Hydropower

Hydropower is a resource that can be used by capturing the energy of flowing water to create electricity.

- Most common type of plant uses a dam on a river to store water in a reservoir. Water released from the reservoir flows through a turbine, spinning it, which in turn activates a generator to produce electricity.
- Hydroelectric power doesn't necessarily require a large dam. Some plants just use a small canal to channel the river water through a turbine.

Geothermal

Geothermal energy is a process where the Earth's internal energy is tapped for a variety of uses, including electric power production and the heating and cooling of buildings.

- Heat can be used in three ways: geothermal electricity production, geothermal direct use, and geothermal heat pumps

Energy Conservation and Efficiency Energy conservation is usually behavior related (e.g. turning off lights, operating a machine fewer hours); efficiency has to do with improving energy efficiency (e.g. using power-saving appliances, cogeneration). These strategies can also be forms of renewable energy and are typically cost effective alternatives.

Current Status

The State of Ohio has significant potential for renewable energy production with a unique diversity of energy opportunities that could generate from 1,170 to 1,680 megawatts of renewable energy production. Some form of renewable energy potential exists in virtually every county within the State.

A short list of the available sources of renewable energy potential in Ohio is as follows: (numbers figured and compiled by Jim Hiendlmayr, Bio-Gas Technologies)

- ❖ Landfill methane gas production from landfills (150 to 200 Megawatts)
- ❖ Bioreactor methane production from high strength industrial waste streams from food processors and bottling plants (325 to 450 Megawatts)
- ❖ Wind Energy (450 to 600 Megawatts)
- ❖ Commercial waste oils (80 to 100 Megawatts)
- ❖ Solar energy from PV panels (15 to 30 Megawatts)
- ❖ Closed loop biomass from energy specific crops as well as waste wood products (150 to 300 Megawatts)

Ohio has several renewable energy systems in place providing approximately 100 megawatts of electrical energy as well as several systems operating that provide direct use of renewable fuels in manufacturing. Ohio currently has several programs available to help build these renewable industries. The Ohio Air Quality Development Authority and the Ohio Energy Efficiency Revolving Loan Fund as well as U.S. Department of Agriculture Business and Industry loan guarantees can help develop renewable energy utilization and are available on a

non-discriminatory basis. One of the major problems in Ohio is that there is virtually no market available for renewable energy. The sale of energy from renewable fuels is limited to few customers, because no obligation or mandate exists to make this energy resource available to a broader customer base and because of this, Ohio may be missing opportunities for up to \$500 million of project development and the long term jobs associated with this development. (For more information see part VI, Ohio Incentives/Federal Incentives).

Comparison

Renewable energy resource production and incentives in Ohio are not as progressive as neighboring states. Many states have adopted policies and mandates that encourage the development of internal renewable energy resources, such as renewable energy utilization requirements or programs that encourage the utilization of renewable energy. (See section VII, Other States Incentives). Iowa, Illinois, Wisconsin, Pennsylvania, and Maine all offer specific programs and obligations that create the economic environment for renewable energy to grow and flourish. Fourteen states have defined renewable energy programs that mandate that utilities offer renewable energy to their entire customer base. Such incentives do not exist in Ohio, although some municipal utilities provide renewable power to their customers. An example of a recent initiative in Pennsylvania to increase renewable energy spending is attached in Appendix F.

Job Potential and Economic Impact

A recent report, (Job Jolt, The Economic Impacts of Repowering the Midwest: The Clean Energy Development Plan for the Heartland, An Economic Study by the Regional Economics Applications Laboratory for the Environmental Law & Policy Center, January 2003), indicates that Ohio can gain significant jobs and income by fostering renewable energy and increasing energy efficiency. This report projects that the Ohio potential for clean energy will produce as many as 26,000 net jobs by 2010 and 39,000 net new jobs by 2020 with \$2.6 billion in increased economic impact by 2010 and \$4.5 billion by 2020.

Another study (Estimated Increases in Ohio Economic Activity from a New Ethanol Processing Facility, by Thomas L. Sporleder, Jeffery D. Layman, and Jessica E Esch, September 2001), estimates economic influence of a new Ohio ethanol facility on Ohio's total economy. On average, the total annual value of the ethanol output from such a facility, assumed to produce 40 million gallons per year, would be approximately \$46 million. The total increase, after accounting for the "ripple" effect, in state economic output is estimated at \$89.9 million per year. The range in impact is from \$78.7 to \$104.0 million per year, depending on the price scenarios chosen. These estimates are conservative because they do not account for the shorter-term economic influence of the actual construction of the plant on the state's economy. Only the larger influence of the sustained annual change in economic activity is included in this impact estimate.

Wind energy in Ohio received a substantial boost when two wind turbines were installed in Bowling Green. These structures stand 360 feet and are the largest turbines west of the Rocky Mountains. They provide approximately 1.8 megawatts a piece - or about six percent total of Bowling Green's energy needs. While small, this amount of energy is entirely clean and demonstrates that investment in renewable energy

resources is economically viable in Ohio. Furthermore, the construction of these turbines created short-term construction and maintenance jobs and will continue to produce rental income for the owners of the land. The Bowling Green wind turbines are a perfect example of the job creation that renewable energy can bring to Ohio.

Solar energy, too, has the potential for creating a powerful workforce in Ohio. The studies being completed in Northwest Ohio indicates that the solar industry will not only produce industry jobs but will create ancillary jobs that are needed to support solar power. Specifically, the Northwest Ohio Partnership on Alternative Energy Systems has started a program at Owens Community College in Toledo, Ohio to train and certify solar panel technicians and installers.

Both wind and solar energy industries have the potential to not only create clean, renewable energy that is competitive with current fossil fuel use, but also create jobs and income for Ohio. By putting people to work while producing clean energy, the State of Ohio will be striking the perfect balance between environmental protection and economic growth. Few other industries can demonstrate such a bold result.

V. Current Industries

Manufactures

Bioenergy

Place	City	Type
AgriEnergy	Pemberville	biofuel-ethanol
Alternative Fuels Equipment	Cleveland	biofuel
American Landfill	Waynesburg	biomass
Bedford #1 and #2 Landfills	Columbus	biomass
Bio-Gas Technologies	Westlake	biomass
Carbon Limestone Landfill	Lowellville	biomass
Cherokee Run Landfill/Laidlaw	Bellefontaine	biomass
Waste Systems Landfill		
Cuyahoga Regional Sanitary	Solon	biomass
Landfill		
CyberUtility, LLC	Cleveland	biomass
Elda Lanfil	Cincinnati	biomass
Evergreen Recycling & disposal	Northwood	biomass
Landfill		
Hardy Road Landfill	Akron	biomass
Genahol Inc.	Grove City	biofuel-ethanol
Lake County Landfill	Bowling Green	biogas-methane
Lake County Landfill	Painesville	biomass
Lorain County I/II Landfill	Oberlin	biomass
Model Landfill	Grove City	biomass
Ottawa County Landfill	Port Clinton	biomass
Phoenix Gulf Course	Grove City	biogas-methane
Pinnacle Road Landfill	Dayton	biomass
Rumpke SLF, Inc	Cincinnati	biomass
State Wide Landfill	Canton	biomass
Stony Hollow Landfill	Dayton	biomass
Tremont Landfill	Springfield	biomass

Ohio Soy Biodiesel Suppliers

Agland Co-op Inc.	Canfield	soy-diesel
Athens Landmark Inc.	Athens	soy-diesel
Auglaize/Provico, Inc.	Wapakoneta	soy-diesel
Barker Marketing BP	Bucyrus	soy-diesel
Belna Petroleum Inc.	Rockford	soy-diesel
Blanchard Valley Farmers Co-op	Findlay	soy-diesel
Bob Sherlock BP	Beverly	soy-diesel
Burke Petroleum, Inc. BP	Minster	soy-diesel
Carpenter Oil Co. Inc	Newark	soy-diesel
Central Ohio Farmers Co-op, Inc	Marion	soy-diesel
Champaign Landmark, Inc.	Mechanicsburg	soy-diesel
Champaign Landmark, Inc.	Urbana	soy-diesel
Country Star Co-op	Bucyrus	soy-diesel
Cremer Northamerica L.P.	Cincinnati	soy-diesel
Downard Distributing Inc.	Carrollton	soy-diesel
Green-Valley Co-op	Bethesda	soy-diesel
Green-Valley Co-op	Marietta	soy-diesel
Guttman Oil Company	Westerville	soy-diesel
Hartley Oil Co.	Washington CH	soy-diesel
Harvest Land Co-op	Eaton	soy-diesel

Harvest Land Co-op	Greenville	soy-diesel
Harvest Land Co-op	Hamilton	soy-diesel
Hightower Petroleum	Franklin	soy-diesel
Jefferson Landmark, Inc	Bloomington	soy-diesel
Leonhart Gas & Oil	Tiro	soy-diesel
Levy Marathon	Greenville	soy-diesel
Luckey Farmers, Inc,	Woodville	soy-diesel
Marion Oil (BP)	Marion	soy-diesel
McWherter Petroleum	Deleware	soy-diesel
Mercer Landmark, Inc.	Celina	soy-diesel
Midland Co-op, Inc.	Zanesville	soy-diesel
Mid-Wood, Inc.	Bowling Green	soy-diesel
Minster Farmers Co-op	Minster	soy-diesel
Moser Oil (BP)	Kenton	soy-diesel
River Valley Co-op, Inc.	London	soy-diesel
Scheetz Marketing	Coshocton	soy-diesel
Southwest Landmark, Inc.	Wilmington	soy-diesel
Sunrise Co-op	Norwalk	soy-diesel
Taylor Oil	Monroe	soy-diesel
Town & Country Co-op	Ashland	soy-diesel
Town & Country Co-op	Medina	soy-diesel
Town & Country Co-op/Equity Exchange	LaGrange	soy-diesel
Western Reserve Farm Co-op	Chardon	soy-diesel
Western Reserve Farm Co-op	Middlefield	soy-diesel

Renewable Energy

Advanced Distributed Generation	Maumee	Solar installer
Alpha Solar Co	Cincinnati	solar
Bard Manufacturing Company	Bryan	geothermal
Byrne Gear Corporation of America	Mansfield	wind & hydroelectric
Camlok	Cincinnati	solar
Chucks Solar Center	Massillon	solar
CompTronics, Inc.	Elyria	energy conversion
Crown Battery Manufacturing	Fremont	energy conversion
CyberUtility, LLC	Cleveland	solar, wind, hydroelectric, geothermal
Design Group	Columbus	solar
Doty & Miller Architects	Bedford	solar
Dovetail Solar	Glouster	solar & wind
Earth Connection	Delhi	solar
Earth Saving Energy Products	Frankfort	solar
Energy Conversion Devices	Rochester Hills	energy conversion
Energy Designs	Westerville	solar
Energy Technologies, Inc.	Mansfield	energy conversion
Entropy Ltd.	Cincinnati	solar
Exothermics Inc	Toledo	energy conversion
First Solar, LLC	Perrysburg	solar
Greco's Hydro Company	Defiance	hydroelectric
Green Mountain Energy Company	Dublin	green power provider
Helionyx Solar Co	Fresno	solar
Hyde-Out Mtn Wind Power	Jewett	solar & wind
In-Tec Equipment Co	Dayton	solar
J.T. Packard & Associates	Lewis Center	energy conversion

Jetstream Power International	Holmesville	solar
Kenray battery Co. Inc.	Ashtabula	energy conversion
M&B'S Battery Co. Inc.	Harrison	solar & wind
Mok Industries	Columbus	solar
Molded Fiber Glass Companies	Ashtabula	wind
Mor-Flo Industries Inc	Cleveland	solar
Nexergy, Inc	Columbus	energy conversion
NTK Powerdex, Inc.	Eastlake	energy conversion
O'Brock Windmill Distributors	North Benton	wind
Owen's Corning	Toledo	wind
Parker Hannifin Corporation	Cleveland	wind
Process Technology	Mentor	hydroelectric
Reip Solar Designs	New	solar
	Philadelphia	
SCI Enginerred Materials	Columbus	solar
Solar Cell Inc	Toledo	solar
Solar Central	Mechanicsburg	solar
Solar Creations	Perrysville	solar
Sunlight Energy Systems	North Lawrence	solar
Sunpower Inc	Athens	solar
Technology Management Inc. (TMI)	Cleveland	energy conversion
The Garland Company	Cleveland	solar
Third Sun Solar and Wind Power	Millfield	solar & wind
Timken	Canton	wind
Universal Electric Power Corp.	Akron	hydroelectric
Vanner Incorporated	Hillard	energy conversion

Projects

AEP Dolan Technology Center	Groveport	wind
Africentric School at Mohawk	Columbus	solar
Aurthur N. Ulrich Company	Pataskala	solar & wind
Ashtabula Lighthouse	Ashtabula	solar
Bay Village Middle School	Bay Village	solar
Bennett & Amash Residence	Glouster	solar
Bluffsvview Elementary School	Worthington	solar
Bolich Middle School	Cuyahoga Falls	solar
Bowling Green State University	Bowling Green	solar
Ice Arena		
Burns Residence	New Marshfield	solar
Bush & Archer residence	Glouster	solar & wind
Chambers Elementary School	East Cleveland	solar
Cleveland Lighthouse	Cleveland	solar
Cole Residence	Cleveland	solar
Columbus Academy	Gahanna	solar & wind
Columbus Zoo Habitat Hollow My House	Powell	solar
Copley High School	Copley	solar
COSI-Toledo	Toledo	solar
Crim Elementary	Bowling Green	solar
Cuyahoga Falls Solar Bus Shelters	Cuyahoga Falls	solar
Doty & Miller Architects	Bedford	solar
Dovetail Solar	Glouster	solar & wind
Ecovillage Village	Cleveland	solar
Energy Designs	Westerville	solar
Emmanuel Christian Academy	Springfield	solar

Evely Residence	Hartsgrove	solar
Fairport Lighthouse	Fairport	solar
Federal Courthouse	Columbus	solar
First Solar, LLC	Perrysburg	solar
Franciscan University of Steubenville	Steubenville	solar
Franklin Elementary School	Elyria	solar
Georgian Heights	Columbus	solar
Glacier Ridge Metro Park	Plain City	solar & wind
Glicher & Shaeffer Residence	Amesville	solar
Governor's Residence	Columbus	solar
Granville Elementary School	Granville	solar
Green Elementary School	Franklin	solar
Green Rapid Transit Stop	Cleveland	solar
Greenfield Residence	Millfield	solar & wind
Harrison Street Elementary School	Sunbury	solar
Harvest Christian Academy	Portsmouth	solar
Heritage Middle School	Westerville	solar
Hudson Middle School	Hudson	solar
Indian Hills Solar School	Cincinnati	solar
Integration Acres Solar Home	Albany	solar
Jackson Elementary	Jackson	solar
Jefferson Elementary School	Jefferson	solar
J. Leonard Camera Center	Columbus	solar
Joseph M. Gallagher Middle School	Cleveland	solar
Kenwood Elementary	Bowling Green	solar
Kieliszewski Residence	Albany	solar
Lake Farm Park	Kirtland	solar & wind
Ledgeview Elementary School	Macedonia	solar
Lock # 6	Muskingum	hydroelectric
Longfellow Elementary School	Eastlake	solar
Longfellow Magnet School	Westerville	solar
Mark Twain Elementary School	Westerville	solar
Martin Luther King Jr	Cleveland	solar
Miami University	Oxford	solar
Nature Center at Shaker Lakes	Cleveland	solar
New Albany Schools Nature	New Albany	solar
North Middle School	Lima	solar
Oberlin College	Oberlin	solar
Ohio National Guard Facility	Columbus	solar
Ohio University - Chub Hall	Athens	solar
Ohio University - Lausche Heating Plant	Athens	solar
Ohio University Innovation Center	Athens	solar
Orville High School	Orville	solar
O'Shaughnessy Dam	Columbus	hydroelectric
Ottawa Point Picnic Area	Brecksville	solar
Peaceful Children Montessori	Kirkland	solar
Prospect Elementary School	Oberlin	solar
Rapini Residence	Mentor	solar & wind
Rich Residence	Bowling Green	solar
Roberts Middle School	Cuyahoga Falls	solar
The Seal of Ohio Girl Scout Council Building	Columbus	geothermal

Sell Residence	Broadview HTS	solar & wind
Seventh Street Home	Maumee	solar
Sill Middle School	Cuyahoga Falls	solar
Solar BP Connect Stations	Cleveland, Columbus	solar
Solar Electric Home	Harrison	geothermal & solar
Solterra	Curtis	solar & wind
South West Licking Elementary School	Etna	solar
Springfield-Clark County JVS	Springfield	solar
Stanton Middle School	Kent	solar
State Teachers Retirement System of Ohio	Columbus	solar
Streetsboro Elementary School	Streetsboro	solar
Taylor Residence	Cleveland HTS	solar
Tillack Residence	Brinkhaven	solar
The Toledo Zoo	Toledo	solar
Union Local Elementary School	Belmont	solar
University of Rio Grande	Rio Grande	solar
University of Toledo	Toledo	solar
Vanner Incorporated	Hillard	energy conversion
Victory Farms	Blacklick	solar & wind
Wheelersburg Jr. High	Wheelersburg	solar
The Welsh Hills School	Granville	solar
Westerville Electric Division	Westerville	solar
West Muskingum Middle School	Zanesville	solar
Whetstone Branch Library	Columbus	solar
Wilson Hills Elementary	Worthington	solar
Witte Residence	Maumee	solar
Wood County Landfill	Bowling Green	wind
Woodridge Middle School	Peninsula	solar
Worthington Kilbourne High School Home B.A.S.E. & Greater Columbus Habitat for Humanity	Columbus	solar
Worthington Middle School	Worthington	solar
Yeager Residence	Maumee	solar
Young Residence	Glouster	solar & wind

Private Laboratories

(This is not a comprehensive detailed list, if you know of other Private Laboratories please contact Jessica Sharp at JSharp@odod.state.oh.us)

Battelle Memorial Institute
Veggie Van

Columbus
Ashland

VI. Ohio Incentives/Federal Incentives

Ohio

Incentives	Incentive Type	Applicable Sectors	Summary	Contact
Conversion Facilities Tax Exemption	Corporate Exemption Property Tax Exemption Sales Tax Exemption	Commercial, Industrial	Exempts certain equipment from property taxation, Ohio's sales and use tax, and Ohio's franchise tax where applicable. The code applies to tangible property used in energy conversion, thermal efficiency improvements and solid waste energy conversion. Eligible technologies include solar thermal systems, photovoltaic systems, wind, biomass, and waste recovery systems.	John Greenway Ohio Department of Development Office of Energy Efficiency jgreenway@odod.state.oh.us
Ethanol Investment Tax Credit	Corporate Tax Credit Personal Tax Credit	Commercial, Industrial	Governor Taft signed into law SB 144 in April 2002 establishing the Ethanol Incentive Board and creating a tax credit against corporation franchise or personal income tax liability for investments ethanol plants. In order to be eligible, facilities must be majority owned by Ohio farmers prior to the first day the facility commences production. For corporate taxpayers who invest this nonrefundable. The amount of the credit equals 50% of the amount the taxpayer invests but not to exceed \$5,000 per taxpayer per plant.	Taxpayer Assistance Ohio Department of Taxation http://www.state.oh.us/tax/
Fuel Cell Grant Program	Industry Recruitment	Commercial, Industrial	Governor Taft unveiled a \$100 million, three year incentive in May 2002 to invest in research, project demonstration, and job creation. The fuel cell initiative provides \$75 million in financing to make strategic capital investments that will create and retain jobs, \$25 million for fuel cell research, development and demonstration, and \$3 million for worker training.	Mike McKay Ohio Department of Development Fuel Cell Initiative mmckay@odod.state.oh.us http://www.connectohio.com/3rdfrontier/

Fuel Cell Loan Program	Industry Recruitment	Commercial, Industrial	The maximum loan per company is \$5 million. In addition the Ohio Department of Development has set aside \$60 million in federal volume cap for tax-exempt financing of qualified, small-issue projects. All of the \$75 million can be used for the purchase of land, buildings, and equipment.	Mike McKay Ohio Department of Development Fuel Cell Initiative mmckay@odod.state.oh.us http://www.connectohio.com/3r
Million Solar Roofs Partnership	Outreach Program	Commercial, Industrial, Residential, General Public/Consumer, Nonprofit, Schools, Local Government, Utility, State Government, Tribal Government, Federal Government	Focus is to build high profile/high media; community based solar energy producers with local ownership in an effort to create an acceptance and understanding of solar energy.	Tom Maves Ohio Department of Development Office of Energy Efficiency tmaves@odod.state.oh.us http://www.odod.state.oh.us/cdd/oe
Solar Practitioner Certification	Voluntary Installer Certification Program	Installer/Contractor	Ohio has an active solar practitioner certification program with Green Energy Ohio (GEO) and the Great Lakes Renewable Energy Association (GLREA). Currently there are three certified installers in Ohio, all of whom are listed on the GEO website.	Tom Maves Ohio Department of Development Office of Energy Efficiency tmaves@odod.state.oh.us

Energy Efficiency Revolving Loan Fund	Public Benefits Fund	General Public/Consumer	The fund will collect \$100 million over 10 years to provide direct loans at below market rates or loan guarantees for energy efficiency improvements undertaken and renewable energy projects by residential, government, educational, commercial, small industrial, or agricultural customers up to 10% of the yearly receipts can be provide in the form of grants. The Office of Energy Efficiency has developed four loan programs for the Fund: 1. Business and Institutional Loans 2. Double Saving Loans for Energy Home Improvement 3. Rental Housing Linked Deposit Program 4. Renewable Energy Financial Assistance Program	Judy Jones Ohio Department of Development Office of Energy Efficiency jsjones@odod.state.oh.us
Environmental Disclosure	Generation Disclosure	Utility	Beginning January 2001, retail providers must disclose fuel mix and emissions data for each electricity product offered	Ed Hess Ohio Public Utilities Commission
Interconnection Standards	Interconnection	Commercial, Industrial, Residential, Nonprofit, Schools, Local Government, State Government, Federal Government	A supplemental review is required where the system is larger than the 300-kW three-phase or 25-kW single-phase size limits, or the equipment has not been type tested.	Information Specialists The Public Utilities Commission of Ohio http://www.puc.state.oh.us/
Net Metering	Net Metering Rules	Commercial, Industrial, Residential	Requires investor-owned utilities to offer a net metering option to customer-generators who own qualifying systems.	Peter Baker Public Utilities Commission of Ohio http://www.puc.state.oh.us/puco/consumer/information.cfm?doc_id=346
Solar Easements	Solar Access Law/Guidelines	Commercial, Industrial, Residential, Nonprofit, Schools, Local Government, State Government, Federal Government	Ohio's solar easement provisions are similar to those in most other states. They allow property owners to create binding solar easements for the purpose of protecting and maintaining proper access to sunlight.	Tom Maves Ohio Department of Development Office of Energy Efficiency tmaves@odod.state.oh.us

Air Quality Development Authority	Bonds, Grants, Loans, Tax Exemptions	Ohio Businesses	To invest in air quality through the provision of conduit financing for the purchase, construction and/or installation of air quality facilities. Bond Financing is available for up to 40 years; the exact term is determined by market and tax analysis, and useful life of the equipment. The principal benefit of the exemptions are: real property tax assessment, Ohio's tangible personal property tax, sales and use tax for purchase of any qualified equipment, and franchise tax calculation.	Ohio Air Quality Development Authority http://www.ohioairquality.org
Ohio Water Pollution Control Loan Fund- Assistance for Livestock Waste Disposal and Reuse and Assistance for Biomass Reuse Activities	Direct Loans Linked Deposit Loans	Individual, Business, Non-profit, Public Entities	Direct loans are for up to ten years and are at a standard interest rate. Linked deposit loans have a negotiable interest rate. A loan is awarded after review of the proposed project, including its water quality benefits and potential environmental impacts.	Ohio EPA's Division of Environmental and Financial Assistance WPCLF Program Management Plan www.epa.state.oh.us/defa
Ohio Biomass Energy Program	Period Grant Funding	Commercial, Industrial, Agricultural, Utility, Government	Period grant funding through the Great Lakes Regional Biomass Energy Program administered by the Council of Great Lakes Governors and funded by the U.S. Department of Energy, Office of Biomass Program, Biomass Energy Resources and Funding Information, Public Outreach, Statewide Collaboration.	Anne Goodge Ohio Biomass Energy Program Public Utilities Commission of Ohio anne.goodge@puc.state.oh.us http://www.puc.state.oh.us/Puco/IndustryTopics.cfm?doc_id=329

Incentives	Incentive Type	Applicable Sectors	Summary	Contact
Federal Deductions for Clean-Fuel Vehicles and Refueling Property Energy Efficient Mortgage	Corporate Deduction	Commercial, Industrial, Residential	The maximum reduction is \$2,000 for cars and smaller vehicles, and 5,000 or \$50,000 for trucks and vans meeting certain size requirements.	Information Specialist- IRS Internal Revenue Service http://www.irs.gov
Energy Star Financing and Mortgages	Federal Loan Program	Residential	The Energy Efficient Mortgage (EEM) can be used by homeowners to pay for energy efficiency measures for new and existing homes.	Information Specialist- RESNET Residential Energy Services Network info@natresnet.org http://www.natresnet.org Information Specialists-ENERGY STAR US EPA Climate Protection Partnerships Division info@energystar.gov http://www.energystar.gov
Solid Wastes Management Grants	Grants	Commercial, Residential, Schools, Local Government, Construction, Utility, State Government, Installer/Contract or Rural Areas	ENERGY STAR financing and mortgages are offered by private lenders and give consumers the incentive to purchase ENERGY STAR-labeled products and homes. EPA does not fund or insure the financing; rather, EPA allows lenders to use the ENERGY STAR label on financing products that meet EPA's labeling criteria. 1. To enhance operator skills in the maintenance and operation of active landfills 2. Top help communities reduce the solid waste stream 3. For operators of landfills, which are closed (or which will be closed) with the development/implementation of closure plans, future land use plans, safety and maintenance planning and closure scheduling.	David M Douglas United States Department of Agriculture Rural Development http://www.rurdev.usda.gov
Business and Industry Loan Guarantees	Loan Guarantee	Individual, Sole Proprietorship, Partnership, Corporation, Cooperative	Maximum of \$10,000,000 and preference given to loans \$5,000,000 and under. Interest rates and terms are negotiable between the lender and the borrower subject to approval by Rural Development	United States Department of Agriculture Rural Development James T. Cogan Jim_Cogan@oh.usda.gov http://www.rurdev.usda.gov
Renewable Energy Systems & Energy Efficient Improvements	Grants	Agricultural Producer, Rural Small Business	An eligible project is: purchase and installation of equipment, construction or improvements, energy audits, permit fees, business plans, professional service fees, feasibility studies, or retrofitting. Grants may be used to pay up to 25% of the eligible project costs.	United States Department of Agriculture Rural Development James T. Cogan Jim_Cogan@oh.usda.gov http://www.rurdev.usda.gov

VII. Other States Incentives

California

Incentives	Incentive Type	Applicable Sectors	Summary	Contact
California Property Tax Exemption for Solar Systems	Property Tax Exemption	Commercial, Industrial, Residential	Active solar energy systems installed between January 1, 1999 and January 1, 2003 are not subject to property taxes.	Tax Specialist-Be California State Board of Equalization http://www.boe.ca.gov
Emerging Renewables (Rebate) Program	State Rebate Program	Commercial, Industrial, Residential, Low-Income Residential, Agricultural	The ERP will provide rebates for the purchase of the same four types of renewable energy generating systems (photovoltaics, small wind turbines, fuel cells using renewable fuels, and solar thermal systems) of 30 kW or less. Total funding under the program is \$118 million.	Energy Call Center California Energy Commission Emerging Renewables Buydown Program renewable@energy.state.ca.us http://www.consumerenergycenter.org/
Energy Financing Industrial Development Bond Program	State Loan Program	Industrial	Offering below-market rate loans to manufacturing companies that will use the loan for the purchase and installation of renewable energy systems, energy-efficient equipment, or clean distributed generation systems on their own facilities, or manufacturers of renewable energy and/or clean distributed generation systems or components establishing or expanding the manufacturer's California production facilities.	Energy Finance IDB Specialist-CPA Consumer Power and Conservation Financing Authority Energy Finance IDB http://www.capowerauthority.ca.gov
SELFGEN-Self-Generation Program	State Rebate Program	Commercial, Industrial, Residential	The Self-Generation Incentive Program provides incentives to encourage customers to produce energy using micro turbines, small gas turbines, wind turbines, photovoltaics, fuel cells, and internal combustion engines. These incentives include payments of \$1-\$4.50/Watt, depending on the technology used and will be funded through the end of 2007.	John Galloway California Public Utilities Commission Energy Division jhg@cpuc.ca.gov http://www.cpuc.ca.gov

Solar or Wind Energy System Credit- Corporate	Corporate Tax Credit	Commercial	The law provides personal and corporate income tax credits for the purchase and installation of solar energy systems, defined as photovoltaic or wind driven systems with a peak generating capacity of up to, but not more than 200 kilowatts	Information Specialist- CEC California Energy Commission Renewable Energy Program renewable@energy.state.ca.us http://www.consumerenergycenter.org
Solar or Wind Energy System Tax Credit- Personal	Personal Tax Credit	Residential	The law provides personal and corporate income tax credits for the purchase and installation of solar energy systems, defined as photovoltaic or wind driven systems with a peak generating capacity of up to, but not more than 200 kilowatts	Information Specialist- CEC California Energy Commission Renewable Energy Program renewable@energy.state.ca.us http://www.consumerenergycenter.org
Solar Tax Deduction	Personal Deduction	Residential	This personal tax deduction allows tax payers to deduct the interest paid on loans used to purchase energy-efficient products or equipment for a residence in California. The deduction is for loans from a publicly owned utility company for the purchase of energy-efficient heating, ventilation, air-conditioning, lighting, solar, advance metering of energy usage, windows, insulation, zone heating products, and weatherization systems.	Information Specialist- IRS Internal Revenue Service http://www.irs.gov
California Clean Energy Partnership (CEP)- Million Solar Roofs Partnership	Outreach Program	Commercial, Industrial, Residential, General Public/Consumer, Nonprofit, Schools, Local Government, Utility, State Government, Tribal Government, Federal Government	An initiative to install solar energy systems on one million U.S. buildings by 2010. The initiative includes two types of solar technology: solar electric systems (or photovoltaics) that produce electricity from sunlight and solar thermal systems that produce heat for domestic hot water, space heating, or heating swimming pools.	Robert Hammon The Building Industry Institute rob@comfortwise.com http://www.thebii.org

Interconnection Standards	Interconnection	Solar Thermal Electric, Photovoltaics, Landfill Gas, Wind, Biomass, Cogeneration, Micro turbines, Other Distributed Generation Technologies	Culminating the current version of "Rule 21", which specifies the technical interconnection rules for all GD under 10MW, including renewables, with separate simplified rules for small renewables under 10 kW. Rule 21 is a utility tariff; Pacific Gas and Electric Company (PG&E), San Diego Gas & Electric Company (SDG&E), and Southern California Edison Company (SCE)-- have filed their own Rule 21 tariffs. net metering in California now applies to renewable energy systems up to 1 MW.	Scott Tomashefsky California Energy Commission stomashe@energy.state.ca.us http://www.energy.ca.gov/
Renewable Resource Trust Fund	Public Benefits Fund	Solar Thermal Electric, Photovoltaics, Wind, Biomass, Hydroelectric, Geothermal Electric, Fuel Cells, Municipal Solid Waste	A \$540 million fund for renewables with its electric industry restructuring. California Energy Commission (CEC) manages the renewables funds through the following accounts: 1. Existing technologies 2. New technologies account 3. Emerging technologies account 4. Consumer side account	Mike DeAngelis California Energy Commission Energy Technology Development mdeangel@energy.state.ca.us http://www.energy.ca.gov/greengrid/
Renewables Portfolio Standard	Renewables Portfolio Standard	Investor-Owned Utility, Later:ESPs and CCAs. Munis implement themselves.	Increase 1% per year beginning in 2003 to reach at least 20% by end of 2017. Under the RPS, retail sellers of electricity are required to increase their procurement of eligible renewable energy resources by at least 1% per year so that 20% of their retail sales are procured from eligible renewable energy resources by 2017	Heather Raitt California Energy Commission Renewable Energy Program hrait@energy.state.ca.us http://www.energy.ca.gov/
Small Wind Access Law	Solar and Wind Access Law	Commercial, Residential, Agricultural	This law insures that any ordinances regulating small wind energy wind energy systems adopted by local agencies do not unreasonably restrict the ability of homeowners, farms, and small businesses to install small wind energy systems outside of urbanized areas.	Dora Yen California Energy Commission PIER Program, Wind Dyen@energy.state.ca.gov http://www.energy.ca.gov/

Solar Access
Laws and the
Solar Shade
Control Act

Solar Access
Law/Guideline

Commercial,
Industrial,
Residential

California's solar access law appears in the state's Civil, Government, and Natural Resource Codes. California's Civil Code ensures that solar easements may be created to ensure that proper sunlight is available to those who operate solar energy systems, including passive solar designs.

Les Nelson
California Solar Energy
Industries Association
Southern California Office
Lnelson@westernrenewables.com
<http://www.calseia.org/>

Solar
Contractor
Licensing

Contractor
Licensing

Installer/Contract
or

The California Contractors State License Board administers the Solar Contractor license (C-46). The license covers active solar energy systems.

Information Technician-CSLB
California Contractors State
License Board
licensing@dca.cslb.ca.gov
<http://www.cslb.ca.gov>

Iowa

Incentives	Incentive Type	Applicable Sectors	Summary	Contact
Alternating Energy Revolving Loan Program	State Loan Program	Commercial, Industrial, Residential	The Alternate Energy Revolving Loan Program (AERLP) is administered by the Iowa Energy Center and funded by the states investor-owned utilities. The AERLP provides loan funds to any individual or organization that wants to build renewable energy production in Iowa	Keith Kutz Iowa State University Iowa Energy Center kkutz @energy.ia.state.edu http://www.energy.ia.state.edu/
Energy Replacement Generation Tax Exemption	Excise Tax Incentive	Commercial, Industrial, Residential	Under the Energy Tax Replacement Generation Tax Exemption, all energy generated by methane gas conversion property (including digester gas facilities) and wind energy conversion property is exempt from the replacement generation tax.	Jennifer Moehlmann Iowa Department of Natural Resources Energy and Waste Management Bureau Wallace State Office Building jennifer.moehlmann@dnr.state.ia.us http://www.state.ia.us/dnr/energy/
Ethanol-Based Fuels Exemption	Sales Tax Exemption	General Public/Consumer	This excise tax exemption allows a refund to those who blend conventional motor fuel with alcohol to produce ethanol. The refund is equal to the "difference between taxes paid on the motor fuel purchased to produce ethanol blended gasoline and the tax due on the ethanol blended gasoline."	Jennifer Moehlmann Iowa Department of Natural Resources Energy and Waste Management Bureau Wallace State Office Building jennifer.moehlmann@dnr.state.ia.us
Ethanol-Blended Gasoline Tax Credit	Corporate Tax Credit	Commercial, Retail Service Stations	This incentive is available to retail service stations at which more than 60% of gasoline sold and dispensed through one or more metered pumps is ethanol-blended beginning January 1, 2002. Eligible service stations will receive a tax credit of \$0.025 (2.5 cents) per gallon of each gallon of ethanol-blended gasoline sold and dispensed through all metered pumps in excess of 60% of gasoline sold.	David Downing Iowa Department of Natural Resources Energy Bureau Wallace State Office Building David.Downing@dnr.state.ia.us http://www.state.is.us/dnr/energy/
Grants for Energy Efficiency and Renewable Energy Research	State Grant Program	Commercial, Industrial, Residential, Transportation, Agriculture	The Iowa Energy center provides grants for energy research on topics that have strong relevance to Iowa.	Keith Kutz Iowa State University Iowa Energy Center kkutz @energy.ia.state.edu http://www.energy.ia.state

Iowa Building Energy Management Program	State Loan Program	Nonprofit, Local Government, State Government, Hospitals, Private Colleges	Provides financing for public and some non-profit organization for energy management. Goal is to make budget-neutral energy improvements for participating agencies and organizations.	Monica Stone Iowa Department of Natural Resources Bureau Wallace State Office Building mstone@max.state.ia.us
Local Option Special Assessment of Windy Energy Devices	Property Tax Assessment	Commercial, Industrial, Residential	This statute allows any city or country to pass an ordinance assessing wind energy conversion equipment at a special valuation for property tax purposes, beginning at 0% of the net acquisition cost in the first assessment year and increasing annually by 5 percentage points to a maximum of 30% of the net acquisition cost in the 7th and succeeding years.	Angela Chen Iowa Department of Natural Resources Energy Bureau Wallace State Office Building angela.chen@dnr.state.ia.us http://www.state.ia.us/dnr/energy/index.htm
Methane Gas Conversion Property Tax Exemption	Property Tax Exemption	Commercial, Industrial, Residential	Under the Methane Gas Conversion Property Tax Exemption, real and personal property used for methane gas collection and conversion into energy in the state of Iowa and connected with, or in conjunction with, a publicly owned sanitary landfill, is exempt from property tax.	Jim Bodensteiner Iowa Department of Natural Resources Energy Bureau Wallace State Office Building jim.bodensteiner@dnr.state.ia.us http://www.state.ia.us/dnr/energy/
Property Tax Exemption for Renewable Energy Systems	Property Tax Exemption	Commercial, Industrial, Residential, Agriculture	The market value added to a property by a solar or wind energy system is exempt from the state's property tax.	Angela Chen Iowa Department of Natural Resources Energy Bureau Wallace State Office Building angela.chen@dnr.state.ia.us
Renewable Fuel Fund	State Loan Program	Commercial, Industrial	The Renewable Fuel Fund is one of two separate programs under the Value-Added Agricultural Products and Processes Financial Assistance Program. This value-added program combines forgivable and traditional loans. Approximately 20% of the money awarded to the project is in the form of a forgivable loan and the remaining 80% is a low-interest loan.	Joe Jones Iowa Department of Economic Development Bureau of Business Finance joe.jones@ided.state.ia.us
Wind Energy Equipment Exemption	Sales Tax Exemption	General Public/Consumer	This statute exempts from the state sales tax the total cost of wind energy equipment and all materials used to manufacture, install or construct wind energy systems.	Angela Chen Iowa Department of Natural Resources Energy Bureau Wallace State Office Building angela.chen@dnr.state.ia.us

Iowa Million Solar Roofs Partnership	Outreach Program	Commercial, Industrial, Residential, General Public/Consumer, Nonprofit, Schools, Local Government, Utility, State Government, Tribal Government, Federal Government	The Iowa Million Solar Roofs Initiative (MSRI) is led by the Iowa Department of Natural Resources (DNR). The focus is to increase PV installations in Iowa through building and promoting the PV installations in the Midwest, encouraging environmentalists and rural landowners/farmers to invest in PV technology, and increasing the knowledge and acceptance of PV technology among building professionals, architects, and engineers.	Jennifer Moehlmann Iowa Department of Natural Resources Energy and Waste Management Bureau Wallace State Office Building jennifer.moehlmann@dnr.state.ia.us
Alternative Energy Law (AEL)	Renewables Set Aside	Utility	This law requires investor-owned utilities to purchase a combined total of 105 MW of their generation from renewable resources, including small hydropower facilities.	John Pearce Iowa Utilities Board john.pearce@iub.state.ia.us
Interconnection Standards	Interconnection	Commercial, Industrial, Residential, Nonprofit, Schools, Local Government, State Government, Federal Government	Iowa allows net metering for renewable energy systems, but no uniform interconnection standards are currently in place for either small renewables or larger distributed generation. To remedy this, the Iowa Department of natural Resources (DNR) has established a process to establish such standards.	Jim Bodensteiner Iowa Department of Natural Resources Energy Bureau Wallace State Office Building jim.bodensteiner@dnr.state.ia.us
Mandatory Utility Green Power Option	Mandatory Utility Green Power Option	Utility	Beginning January 1, 2004, all electric utilities operating in Iowa, including those not rate-regulated by the Iowa Utilities Board (IUB), are required to offer green power options to their customers.	John Pearce Iowa Utilities Board john.pearce@iub.state.ia.us
Net Metering	Net Metering Rules	Commercial, Industrial, Residential	Created by the Iowa Utilities Board in 1983, Iowa's net metering rule allows customer with alternative energy generation systems to sell electricity to their investor-owned utilities on a netted basis against their metered retail usage.	John Pearce Iowa Utilities Board john.pearce@iub.state.ia.us

Solar Access
Easements

Solar Access
Law/Guideline

Commercial,
Industrial,
Residential,
Nonprofit,
Schools, Local
Government, State
Government,
Federal Government

Iowa's solar access easement provision
allows for access to sunlight to
operate a solar energy system.

John Pearce
Iowa Utilities Board
john.pearce@iub.state.ia.us

Pennsylvania

Incentives	Incentive Type	Applicable Sectors	Summary	Contact
Alternative Fuels Incentive Grant Fund (AFIG)	State Grant Program	Commercial, Industrial, Residential, General Public/Consumer, Nonprofit, Schools, Local Government	This program provides financial assistance and information on alternative fuels and vehicles. The grant will pay 20% of eligible project costs.	Karen Miller Pennsylvania Department of Environmental Protection Bureau of Air Quality karenmiller@state.pa.us http://www.dep.state.pa.us/dep/deputate/airwaste/aq/default.htm
Pennsylvania Energy Harvest Grant Program	State Grant Program	Commercial, Nonprofit, Schools, Local Government, Agricultural	Pennsylvania Energy Harvest will help finance the implementation of clean and renewable energy technologies that will have measurable benefits in terms of pollution reduction, environmental quality, and reduced energy usage rather than those that focus solely on public outreach and communication.	Kurt. K. Knaus Pennsylvania Department of Environmental Protection Rachel Carson State Office Building http://www.dep.state.pa.us/
Pennsylvania Million Solar Roofs Partnership	Outreach Program	Commercial, Industrial, Residential, General Public/Consumer, Nonprofit, Schools, Local Government, Utility, State Government, Tribal Government, Federal Government	The Pennsylvania Million Solar Roofs Initiative (MSRI) is led by the Pennsylvania Weatherization Task Force, which will create, administer, and market a PA Partnership Financing and Incentive program that will result in significant increases in PV installations throughout the PA Partnership area.	Gene Brady Commission on Economic Opportunity Pennsylvania Weatherization Providers Task Force info@pasolar.org http://www.pasolar.org
Commonwealth of Pennsylvania-Green Power Purchasing	Green Power Purchasing/Aggregation	State Government	Under Governor Mark Schweiker, the Commonwealth of Pennsylvania signed a contract with Community Energy Inc. to purchase 100 million kWh of green power over two years starting January 1, 2002. The green power is 5 percent of the state government's needs.	Catherine Browniee Governor's Green Government Council cbrowniee@state.pa.us http://www.gggc.stste.us/text/default.htm
Net Metering	Net Metering Rules	Commercial, Industrial, Residential,	Pennsylvania's Public Utility Code states that qualifying facilities of less than 50 kilowatts may opt for net energy billing.	Calvin Birge Pennsylvania Public Utility Commission birge@state.pa.us

Public Benefits Program	Public Benefits Fund	General Public/Consumer	Each utility created its own "Sustainable Energy Fund" with the goals of promoting (1) the development and use of renewable energy and advanced clean energy technologies, (2) energy conservation and efficiency, and (3) sustainable energy businesses.	Calvin Birge Pennsylvania Public Utility Commission birge@state.pa.us
Renewable Portfolio Standard	Renewables Portfolio Standard	Utility	Renewable energy portfolio requirement was subsequently established through individual utility restructuring settlements. PECO: 2% in 2001; increasing 0.5% annually; other utilities vary	Dan Griffiths Pennsylvania Office of Consumer Advocate dgriffiths@paoca.org

Michigan

Incentives	Incentive Type	Applicable Sectors	Summary	Contact
Alternative Energy Equipment Exemption	Industry Recruitment	Commercial, Industrial	Companies located in Michigan and engaged in the research, development or production of alternative energy sources, are eligible for a property tax exemption on all alternative energy equipment.	Rachel Kuntzsch Next Energy rachelk@nextenergy.org http://www.nextenergy.org
Alternative Energy Property and Real Tax Exemption	Industry Recruitment	Commercial, Industrial	Companies located in Michigan's NextEnergy Zone and engaged in the research, development, or production of alternative energy sources, are exempt from certain state and local taxes, including personal property taxes, real property taxes, and the state's educational tax.	Rachel Kuntzsch Next Energy rachelk@nextenergy.org http://www.nextenergy.org
Biomass Workshop and Event Grants	Grant Program	Nonprofit, Schools, Local Government, State Government	The Michigan Biomass Energy Program has funding available to support workshops or events that increase public awareness about energy or fuel derived from biomass resources. There is a \$2,500 limit per workshop or event.	Kelly Launder Michigan Department of Consumer and Industry Services Energy Office klaund@michigan.gov http://www.michiganbioenergy.org
Community Energy Project Grants	State Grant Program	Nonprofit, Schools, Local Government, State Government	On an annual basis-usually in June-Michigan's Energy Office solicits proposals for community education or information programs to assist consumers to identify and select energy efficiency and renewable energy options. Community Energy Project Grants are available to public and non-profit agencies.	John Sarver Michigan Department of Consumer and Industry Services Energy Office jhsarver@michigan.gov http://www.michigan.gov/cis/0,1607-154-10573_17393---,00.html
Employee Payroll Tax Credit	Industry Recruitment	Commercial, Industrial	Certified companies that locate in the NextEnergy Zone and develop alternative energy technologies are eligible for a personal income tax credit, whereby the sum of the state income taxes paid by a company's employees (who work in the Zone) is refunded to the company.	Rachel Kuntzsch Next Energy rachelk@nextenergy.org http://www.nextenergy.org
Energy Efficient Grants	State Grant Program	Commercial, Industrial, Residential, Nonprofit, Schools	Michigan offers grants to support energy efficiency projects, including fuel cell installations, through the state's Low Income and Energy Efficiency Fund. Projects incorporating other renewable energy technologies are sometimes eligible.	Tom Stanton Michigan Public Services Commission Competitive Energy Division tstanton@michigan.gov

Michigan Biomass Energy Program Grants	State Grant Program	Nonprofit, Schools, Local Government, State Government	The Michigan Biomass Energy Program (MBEP) provides funding for state bioenergy and biofuels projects on a regular basis. Funding categories typically include biofuels and bioenergy education, biofuels infrastructure, and biomass technology development and demonstrations. Grant awards range from \$5,000 to \$50,000.	Kelly Launder Michigan Department of Consumer and Industry Services Energy Office klaund@michigan.gov
Solar Practitioner Certification	Voluntary Installer Certification Program	Installer/Contractor or	The Great Lakes Renewable Energy Association (GLREA), in cooperation with and assistance from Detroit Edison and Bekaert ECD Solar Systems LLC, developed a program for certifying solar electric installers and systems. The first group of installers (from Michigan and Ohio) was certified in November 2000. Certification required testing and design/installation of a minimum of 10 systems totaling 5kW.	Certification Program Great Lakes Renewable Energy Association info@glrea.org
Solar Contractor Licensing	Contractor Licensing	Installer/Contractor or	Michigan offers a solar contractor license to those with a least three years of experience installing solar equipment under the direction of a licensed contractor.	Tennison Barry Michigan Department of Consumer and Industry Services Mechanical Division bccinfo@cis.state.mi.us http://www.cis.state.mi.us/opla/erd/home.htm

Illinois

Incentives	Incentive Type	Applicable Sectors	Summary	Contact
Ethanol and Biodiesel Sales Tax Exemption	Sales Tax Exemption	Commercial	There is a full tax exemption on proceeds from the sale of ethanol blends ranging from E-70 to E-90 (70%-90% ethanol), and biodiesel blends exceeding E-10 (10% biodiesel).	Public Information - IL DOR Illinois Department of Revenue Willard Ice Building http://www.revenue.state.il.us
Fuel Cost Differential Rebate	State Rebate Program	Commercial, Industrial, Residential, General Public/Consumer, Nonprofit, Local Government, State Government	Illinois' Alternative Fuels Rebate Program provides rebates to owners of vehicles operating on ethanol (E-85) or biodiesel at least half of the year. Owners will receive an annual rebate or either \$450 (for vehicles accruing a least 17,500 per year) or \$360 (for vehicles accruing less than 17,500 per year).	Darwin Burkart Illinois EPA Bureau of Air darwin.burkhart@epa.state.il.us http://www.epa.state.il.us
Illinois Clean Energy Community Foundation Grants	State Grant Program	Nonprofit, Schools, Local Government, State Government	The ICECF invests in clean energy development and land preservation efforts to improve environmental quality in the state. The ICECF supports programs and projects that will improve energy efficiency, develop renewable energy resources, and preserve and enhance natural areas throughout Illinois.	Ed Miller Illinois Clean Energy Community Foundation emiller@illinoiscleanenergy.org www.illinoiscleanenergy.org
Illinois Renewable Fuels Development Program	State Grant Program	Industrial	Created in June 2003, the Illinois Renewable Fuels Development Program provides up to \$15 million a year in grants for financial assistance for the construction, modification, alteration or retrofitting of renewable fuel plants in Illinois.	David Loos Illinois Department of Commerce and Economic Opportunity bureau of Energy and Recycling dloos@commerce.state.il.us http://www.commerce.state.il.us/com/energy/index/html
OEM Vehicle Rebate	State Rebate Program	Renewable Fuel Vehicles	The Original Equipment Manufacturer (OEM) Vehicle Rebate is equal to 80% of the additional cost of accruing an alternate fuel vehicle as compared to the cost of the same type of conventional vehicle.	Darwin Burkart Illinois EPA Bureau of Air darwin.burkhart@epa.state.il.us http://www.epa.state.il.us
Renewable Energy Resources Program Grants	State Grant Program	See current RFPs	Promotes the development and adoption of renewable energy within the state of Illinois. Renewable Energy Resource Program (RERP) distributes funds in the form of grants (for large systems) and rebates (for small systems).	Rex Buhrmester Illinois Department of Commerce and Economic Opportunity Bureau of Energy and Recycling rbuhrmes@illinoisbiz.biz http://www.commerce.state.il.us

Renewable Energy Resources Program Rebates	State Rebate Program	Commercial, Industrial, Residential, Nonprofit, Schools, Local Government, State Government, Associations	Renewable Energy Resource Program (RERP) distributes funds in the in form of grants for large systems and rebates for smaller systems. Solar Thermal: 50% with a maximum of \$,5000. PV: 60% with a maximum of 46/watt and \$5,000.	Rex Buhrmester Illinois Department of Commerce and Economic Opportunity Bureau of Energy and Recycling rbuhrmes@illinoisbiz.biz
Vehicle Conversion Rebate	State Rebate Program	Commercial, Industrial, Residential, General Public/Consumer, Nonprofit, Local Government, State Government	Illinois' Alternative Fuels Rebate Program provides rebates for those who convert and existing conventional vehicle to and alternative fuel vehicle. The Vehicle Conversion Rebate is equal to 80% of the cost of converting a conventional vehicle to operate using ethanol or biodiesel, with a maximum rebate of \$4,000.	Darwin Burkart Illinois EPA Bureau of Air darwin.burkhart@epa.state.il.us http://www.epa.state.il.us
Renewable Energy Resources Trust Fund	Public Benefits Fund	General Public/Consumer	The renewable Energy Resource Trust Fund supports Renewables through grants, loans, and other incentives administered by the Department of Commerce and Community Affairs.	Rex Buhrmester Illinois Department of Commerce and Economic Opportunity Bureau of Energy and Recycling rbuhrmes@illinoisbiz.biz
Renewables Portfolio Goal	Renewables Portfolio Standard	Utility	In June 2001, Illinois enacted legislation creating the Illinois Resource Development and Energy Security Act. The legislation adopted a statewide renewable energy goal of at least 5% of total energy by 2010, and at least 15% by 2020	David Loos Illinois Department of Commerce and Economic Opportunity bureau of Energy and Recycling dloos@commerce.state.il.us
	State of Illinois- Green Power Purchasing	Green Power Purchasing/ Aggregation	An executive order was issued committing the state to purchase by 2010 green power for at least 5% of the electricity used by the buildings owned or operated by agencies under the governor's control. The amount of renewables will grow at least 15% by 2020.	Public Information - Governor IL Office of the governor governor@state.il.us http://www100state.il.us/gov/

West Virginia

Incentives	Incentive Type	Applicable Sectors	Summary	Contact
Alternative Fuel Vehicle Tax Credit	Personal Tax Credit	Renewable Fuel Vehicles	West Virginia offers a tax credit to those who convert a conventional vehicle to operate as an alternative fuel vehicle, and to those who purchase a new dedicated or dually fueled alternative fuel vehicle from an original equipment manufacturer or an after-market conversion facility	Taxpayer Assistance-WV State Tax Department http://www.state.wv.us/taxdiv/
Special Assessment for Wind energy Systems	Property Tax Assessment	Utility	West Virginia enacted legislation in May 2001 lowering the property tax on utility-owned wind turbines from 100% to 5% of assessed value.	Jeff Herholdt West Virginia Development Office Energy Efficiency Program jherholdt@wvdo.org
Tax Exemption for Wind Energy Generation	Corporate Exemption	Utility	Lowering the Business and Operation Tax (B&O) on utilities using wind-power generation. For most types of electricity-generating units, the B&O tax is 40% of the generating capacity of the unit.	Jeff Herholdt West Virginia Development Office Energy Efficiency Program jherholdt@wvdo.org

Kentucky	Incentives	Incentive Type	Applicable Sectors	Summary	Contact
TVA-Green Power Switch Generation Partners Program	Production Incentive	Commercial, Residential	Commercial, Residential	TVA will purchase the entire output of a qualifying system (\$0.15 per kWh) through a participating power distributor and the consumer will receive a credit for the power generated.	Carmen Copeland Tennessee Valley Authority Green Power Switch cacopeland@tva.gov http://www.tva.com/greenpowerswitch/partners/
Kentucky Million Roofs Solar Program	Outreach Program	Commercial, Industrial, Residential, General Public/Consumer, Nonprofit, Schools, Local Government, Utility, State Government, Tribal Government, Federal government	Commercial, Industrial, Residential, General Public/Consumer, Nonprofit, Schools, Local Government, Utility, State Government, Tribal Government, Federal government	The Kentucky Million Solar Roofs Initiative (MSRI), called Kentucky Future-Opening Doors to Solar Energy Use, is a continuing partnership throughout the state of Kentucky	Geoffrey Young Kentucky Division of Energy geoffrey.young@mail.state.ky.us
TVA-Green Power Switch Program	Green Pricing Program	Commercial, Residential	Commercial, Residential	Throughout the program, residential and commercial customers can substitute traditionally generated energy with renewable energy.	Gary Harris Tennessee Valley Authority Green Power Switch ghharris@tva.gov http://www.greenpowerswitch.com
Net Metering pilot Program	Net Metering Rules	Commercial, Industrial, Residential	Commercial, Industrial, Residential	Offers net metering to qualified customers as part of a pilot program. Residents and businesses in Kentucky Utilities (KU) or Louisville Gas and Electric (LG&E) territory that install solar, wind, or small hydro systems are eligible. Residential systems are limited to a maximum capacity of 10kW, while the systems for a non-residential customer is limited to 25 kW.	Joshua Bills Appalachia-Science in the Public Interest solar@a-spi.org http://www.a-spi.org/solar
Solar Easements	Solar Access Law/Guidelines	Commercial, Industrial, Residential, Nonprofit, Schools, Local Government, State Government, Federal Government	Commercial, Industrial, Residential, Nonprofit, Schools, Local Government, State Government, Federal Government	A solar easement may be obtained for the purpose of assuring access to direct sunlight.	Geoffrey Young Kentucky Division of Energy geoffrey.young@mail.state.ky.us

Indiana

Incentives	Incentive Type	Applicable Sectors	Summary	Contact
Alternative Fuel Transportation Grant Program	State Grant Program	Commercial, Non-profit, Local Government	Indiana's Alternative Fuel Transportation Grant Program is designed to enable businesses and institutions to acquire alternative fuel vehicles and to make use of alternative transportation fuels. Businesses, non-profit institutions and units of local government (including public school systems) are eligible to apply for grants. Grant amounts range from \$2,000 to \$30,000.	Phillip Powlick Indiana Department of Commerce Energy Policy Division ppowlick@commerce.state.in.us
Alternative Power & Energy Grant	State Grant Program	Commercial, Non-profit, Local Government	The Energy Policy Division (EPD) of the Indiana Department of Commerce offer this grant program to enable businesses and institutions to install and study alternative and renewable energy system applications	Phillip Powlick Indiana Department of Commerce Energy Policy Division ppowlick@commerce.state.in.us
Distributed Generation Grant Program (DGGP)	State Grant Program	Commercial, Industrial, Schools, Local Government, State Government	The Distributed Generation Grant Program (DGGP) offers grants of up to \$30,000 to enable businesses and institutions to install and study alternatives to central generation.	Ethan Rogers Indiana Department of Commerce Energy Policy Division erogers@commerce.state.in.us http://www.in.gov/doc/
Energy Education and demonstration Grant Program	State Grant Program	Commercial, Non-profit, Schools, Local Government	This program makes small-scale grants for projects that demonstrate applications of energy efficiency and renewable energy technologies for businesses, public and non-profit institutions, schools, and local governments	Phillip Powlick Indiana Department of Commerce Energy Policy Division ppowlick@commerce.state.in.us
Ethanol Production Tax Credit	Corporate Tax Credit	Industrial	Indiana offers a production tax credit of \$0.125 (12.5 cents) per gallon for each gallon of pure ethanol produced beginning January 1, 2004	Phillip Powlick Indiana Department of Commerce Energy Policy Division ppowlick@commerce.state.in.us
Indiana Biomass Grant Program	State Grant Program	Industrial	This grant program was created to assist with research, development, and production of biomass energy systems. Goals include increasing the role of biomass in Indiana's energy mix, deploying cost-effective biomass energy technologies and promoting private and public sector investment in biomass technology and resources.	Phillip Powlick Indiana Department of Commerce Energy Policy Division ppowlick@commerce.state.in.us

Renewable Energy Systems Exemption	Property Tax Exemption	Commercial, Industrial, Residential	Indiana's property tax code contains four separate statutes pertaining to solar, wind, hydropower, and geothermal systems, respectively. The statutes exempt from property taxes the entire renewable energy device and affiliated equipment, including equipment for storage and distribution,	Phillip Powlick Indiana Department of Commerce Energy Policy Division ppowlick@commerce.state.in.us
Net Billing Rules	Net Metering Rules	Commercial, Industrial, Residential	As part of the Indiana Utility Regulatory commission's overall cogeneration and small power production rules, Indiana has adopted net billing rules for generators producing less than 1,000kWh per month.	Laura Cvengros Indiana Utility Regulatory Commission lcvengros@urc.state.in.us
Solar Access Laws and Regulations	Solar Access Law/ Guideline	Commercial, Industrial, Residential, Nonprofit, Schools, Local Government, State Government, Federal Government	Indiana statutes include both covenant restriction and solar easement provisions. The state's covenant restrictions prevent planning and zoning authorities from prohibiting or unreasonably restricting the use of solar energy. Indiana's solar easements provisions allow parties to voluntarily enter into solar easement contracts, which are enforceable by law.	Phillip Powlick Indiana Department of Commerce Energy Policy Division ppowlick@commerce.state.in.us

Appendix

A. Recommendations from Testimony

Frank Calzonetti University of Toledo

- Encourage investment in PV technologies that create awareness, develop more experienced PV-certified installers, and promote new business formation.
 - Provide greatly expanded programs to promote installation on PV systems and designs in new school buildings (40KW or greater)
 - Make available collaborative funding for a few large, meaningful PV projects throughout the state (e.g. school or government building.) — Greater than 100KW
 - Introduce legislation that would commit the State of Ohio to a “renewable portfolio standard” (RPS) of 2%...10% of utility power from renewable non-hydro sources within a set number of years
 - Expand Ohio’s R&D tax credit for companies investing in sponsored research in alternative energy in Ohio
- Strengthen Alternative Energy Research Innovation by creating an incentive for human capital investment
 - Annual graduate fellowship grants to link Third Frontier Capital Awards for research centers and programs
- Support efforts by ODOD to recruit globally for industries to make Ohio an international leader for research, development, production and adoption of alternative energy

Sam Spofforth Central Ohio Clean Fuels Coalition

- Recommendation #1: Increase usage of E85, an 85% ethanol - 15% unleaded gasoline blend, by state-owned flexible fuel vehicles.
 - Obtain accurate vehicle counts and locations:
 - Install automated card reader systems on all existing and new state E85 facilities
 - Develop new E85 refueling infrastructure that is accessible to all Flex Fuel Vehicles - privately as well as government owned:
 - Convincing fuel retailers to develop public E85 refueling infrastructure will require three things:
 1. Provide numbers of state and other government vehicles that would use the station, based on accurate location information as explained above.
 2. Demonstrate a serious commitment to use the fuel at a specific station through a Governor’s Executive Order and/or individual departmental orders and aggressive education efforts with state employees who use FFVs.
 3. Provide matching grants to help develop the facilities. (Some limited competitive federal grants also are available for this purpose.)
 - Support new in-state producers of ethanol:
 - Encourage E85 retailers to consider purchasing fuel directly from Ohio producers

- Recommendation #2: Increase usage of biodiesel by state departments.
- Recommendation #3: The State of Ohio should establish an incentive program to help cover the incremental added cost of biodiesel and possibly ethanol-blended fuels.
- Recommendation #4: The state of Ohio should establish vehicle bid specifications for more alternative fuel vehicles, including more Flex Fuel Vehicles.
- Recommendation #5: The Ohio Department of Transportation should adopt a clear policy in support of using federal Congestion Mitigation and Air Quality (CMAQ) to support alternative fuel and vehicle projects, including E85 infrastructure and biodiesel incremental cost.
- Recommendation #6: The State should fund a feasibility study concerning development of biofuels for transportation uses - specifically including methane from landfill gas and large agriculture operations.

Wendel Dreve

Farmers Ethanol LLC

- Knowledge:
 - Someone has to go out and make a survey of what is out there
 - Figure out what all of the input means today and identify options for the future
- Infrastructure:
 - Tools Needed: Communication tools to rural areas.
 - Education: Having the tools means having the educational capability to transfer skills and knowledge to the workers who need them.
- Finance:
 - Having the tools to build the industry means having the financial tools and the support mechanisms to create new job opportunities.
 - Utilize all the available resources that the State offers

Anne Goodge

Public Utilities Commission of Ohio-Biomass Energy Program

- Interagency Task Force on Biomass
- Promote state and federal grant and financing opportunities
- Expand state fleet usage of biofuels
- Enhanced outreach to research community and private sector

**Floyd Schanbacher
Center**

Ohio Agricultural Research and Development

- A need to conduct an inventory of the biomass in Ohio and define biomass by the following perimeters:
 - Each individual source of biomass
 - Type of Biomass as characterized by
 - Materials contributing to it
 - Crude nutrient composition
 - Predicted best conversion technology for that biomass and type of energy produced
 - Predicted energy yield
 - Geo-reinforcing of each biomass source (GPS coordinates) to allow determination of trucking distances for

- Do not recommend any State methods to fund projects (private enterprise does this) or studies (education and industry do this).
- Encourage tax credits and financing incentives instead, not direct equity funding.
- Increase Demand for Renewable Energy- incentives, tax savings, and tax credits for citizens; mandating use for governmental entities.
- Conservation and environmental efforts directed toward all fossil fuels to reduce dependence.
- Awareness- impact on energy prices of a declining dollar in a world economy and the effect of the declining world energy reserves will have on the increasing world demand situation.

Ron Prater

Green Mountain Energy Company

- A state procurement policy where the State of Ohio leads by example and purchases at least a small percentage of its electricity from renewable sources.
- Find ways to encourage more companies to manufacture and construct renewable sources of electricity here in Ohio.
- RPS should encourage the development of new renewables in Ohio without favoring renewables that may be cost-prohibitive.

Julia Blankenship

Cinergy Services, Inc.

- Cost Recovery to utilities investing in renewable generation
- Block Purchase Programs as an effective method of supplying customers

Janine Migden

Ohio Clean Energy Business Association

- Tax Procurement Policy
- State Energy Grants
- Distributed Generation Standardized Interconnection
- Renewable Energy Standard

Dennis Hall

**The Ohio State University College of Food
Agriculture and Environmental Science**

- Operating fund in a competitive grant format to help universities conduct research in biofuel and renewable energy technologies
- Create a Biofuel and Renewable Energy Resource Council

Written Testimony

Tim Curtis

Liquid Resources of Ohio, LLC

- State of Ohio should help industries market and finance their ventures

James Mueller

Poly Science Bio Tech LLC

- Alter the bidding procedures to set aside 35% of the biodiesel purchased by the State to be manufactured in Ohio

Dale Arnold

Ohio Farm Bureau Federation

- Commitment to Ohio

B. Pertinent Report Citations/Sources

Agricultural Biogas casebook
Joseph M. Kramer
Resource Strategies, Inc.
September 2002

Creating Jobs & Clean Energy for
Ohio
Growing & Sustaining an Energy
Economy that Improves the
Quality of Life for Ohio
Citizens
Ohio Clean Energy Business
Association
September 2003

"Directory of Wood Manufacturing
Industry of Ohio"
Bibhakar S. Shakya
Public Utilities Commission of
Ohio
Ohio Biomass Energy Program
August 1997

"The Work that goes into
Renewable Energy"
Virinder Singh and Jeffery Fehrs
Renewable Energy Project Repor

"Estimated Increases in Ohio
Economic Activity from a New
Ethanol Processing Facility"
Thomas L. Sporleder, Jeffrey D.
Layman, & Jessica E. Esch
September 2001

"Harnessing Solar Energy in the
Midwest"
U.S. Department of Energy
Chicago Regional Office
August 2003

Job Jolt
The Economic Impacts of
Repowering the Midwest:
The Clean Energy Development
Plan for the Heartland
Environmental Law & Policy
Center

"The Prospect of Energy Crops in
Ohio's Competitive Power Market"
Bibhakar S. Shakya
Public Utilities Commission of
Ohio
Ohio Biomass Energy Program
October 2000

"Wind Powering the Midwest"
U.S. Department of Energy
Chicago Regional Office
August 2003

"What Renewable Energy Means to
Texas"
Virtus Energy Research
Associates & Kelleygraphics for
Public Citizen & the Sustainable
Energy and Economic Coalition

"Turning Manure into Gold:
Converting Agricultural Waste
into Energy"
Midwest Energy Research Center

Web Sites for Pertinent Sources

- <http://www.eere.energy.gov/>
- <http://www.crest.org>
- <http://www.ucsusa.org/>
- <http://www.awea.org/>
- <http://www.repp.org>
- <http://www.energy.ca.gov>
- <http://www.njcep.com>
- <http://www.amp-ohio.org>
- <http://www.windindustry.org>
- <http://www.GreenEnergyOhio.org>
- <http://www.bergey.com>
- <http://www.borregosolar.com>
- <http://www.energycentral.com>
- <http://www.nrel.gov>
- <http://www.epa.gov>
- <http://www.energy.iastate.edu/renewable>
- <http://www.science.doe.gov>
- <http://www.dsireusa.org>
- <http://www.ohioairquality.org>
- <http://www.rurdev.usda.gov>
- <http://www.cleanenergystates.org>
- <http://www.thestellagroupltd.com>
- <http://www.ucsusa.org/energy>

C. Universities Researching Renewable Energy (this is not a comprehensive detailed list, if you know of other Universities please contact Jessica Sharp at JSharp@odod.state.oh.us)

Bowling Green State University
Denison University
Findlay University
Mt. St. Mary's College
Oberlin College
The Ohio State University
The Ohio State University-Ohio Agriculture Research and
Development Center
Owens Community College Toledo
University of Dayton
The University of Toledo
Wright State University

D. Pertinent Organizations

Alternative Liquid Fuel Industries
Case Western Reserve
Central Ohio Clean Fuels Coalition
Governor's Ethanol Coalition
Green Energy Ohio
Green Mountain Energy Company
EISC/Center for Innovative Food Technology
Environmental Law & Policy Center
Industrial Energy Users of Ohio
National Biodiesel Board
National Ethanol Vehicle Coalition
National Renewable Energy Lab
NBBJ Design
Northwest Ohio Partnership for Alternative Energy System
Ohio Clean Energy Business Association
Ohio Corn Grower's Association
Ohio Environmental Alliance
Ohio Environmental Council
Ohio Farm Bureau Federation
Ohio Municipal Electric Association
Ohio Partners for Affordable Energy
Ohio Public Interest Research Group
Ohio Soybean Council
Public Utilities Commission of Ohio-Biomass Energy Program
Renewable Fuels Association
U.S. Department of Energy/ Energy Efficiency and Renewable Energy

E. Potential Industries

Company Name	City
Food Processors	
7 Up Bottling Group	Cincinnati
A & M Cheese Co	Toledo
A & M Cheese Co	Toledo
A To Z Portion Control Meats	Bluffton
Abbott Laboratories	Columbus
Advanced Organics Inc	Upper Sandusky
Agland Co-Op Inc	Lisbon
Aladdin's Baking Co	Cedar Rapids
Alfred Nickles Bakery Inc	Zanesville
Alfred Nickles Bakery Inc	Navarre
Alleman's Bakery & Restaurant	Ashtabula
Alpine Cheese Co	Winesburg
American Foods Group Inc	Cincinnati
Amir Foods Inc	South Euclid
Andersons Inc	Lyons
Anheuser-Busch Inc	Columbus
Anthony Thomas Candy Co Inc	Columbus
Archer Daniels Midland Co	Ravenna
Archer Daniels Midland Co	Fostoria
Archway Cookies LLC	Ashland
Arps Dairy Inc	Defiance
Artic Ice Corp	Garfield Heights
Athens Pastries & Frozen Foods	Brook Park
Atys US Inc	Botkins
Auddino's Italian Bakery Inc	Columbus
Auglaize Farmers Cooperative	Wapakoneta
Auntie Anne's	Niles
Auntie Anne's Soft Pretzels	Saint Clairsville
Auntie Anne's Soft Pretzels	Strongsville
B & D Commissary LLC	Mount Perry
B & J Baking Co Inc	Cincinnati
Bagel Lovers	Trotwood
Bakehouse Bread Co Inc	Troy
Baker Candies Inc	Cleveland
Balkan Baking Co	Ashtabula
Ballas Egg Products Corp	Zanesville
Ballreich Bros Inc	Tiffin
Baraona's Baking Co	Maple Heights
BarrelHouse Brewing Co Inc	Cincinnati
Basic Grain Products Inc	Coldwater
Beaver Wholesale Meats Inc	Smithville
Becker's Bakeshop Inc	Cleveland

Beckman & Gast Co Inc	Saint Henry
Belmont Mills Inc	Belmont
Belton Foods Inc	Dayton
Ben Heggy Candy Co	Canton
Benjamin P Forbes Co	Cleveland
Berardi's Fresh Roast Coffee	North Royalton
Berlin Natural Bakery Inc	Berlin
Biery Cheese Co	Louisville
Big Gus Onion Rings Inc	Cleveland
Bil-Jac Foods Inc	Medina
Birchwood Foods Inc	Columbus
Bloomer Candy Co	Zanesville
Blue Ribbon Meat Co Inc	Cleveland
Bob Evans Farms Inc	Bidwell
Bob Evans Farms Inc	Xenia
Bob Evans Farms Inc	Springfield
Bob Evans Farms Inc	Columbus
BonBonerie Co	Cincinnati
Bosell Foods Inc	Cleveland
Bowman & Landes Turkeys Inc	New Carlisle
Bread Kneads Inc	Findlay
Brew Kettle Inc	Strongsville
Brewster Dairy Inc	Brewster
Bricker's Ice Cream	Hudson
Brinkman's Cannery	Findlay
Brookview Farm Inc	Archbold
Broughton Cannery	Paulding
Broughton Foods Co LLC	Marietta
Brown's Bakery Inc	Defiance
Bruegger's Bagels	Cleveland
Buckeye Egg Farm LP	Croton
Buckeye Egg Farm LP	Mount Victory
Buckeye Nutrition	Dalton
Buckeye Valley Food Co Inc	Sugarcreek
Buckley Bros Inc	Wilmington
Bunker Hill Cheese Co Inc	Millersburg
Burton Bottling Co Inc	Cleveland
Busken Bakery Inc	Cincinnati
Butternut Bread Co	Cincinnati
C J Dannemiller Co	Norton
Campbell Soup Co	Wauseon
Campbell Soup Supply Co	Napoleon
Canal Fulton Provision Inc	Canal Fulton
Candy Flower Aquisition Corp	Mentor
Candy Shop	Vermilion
Cappy's Donuts	Belpre
Cargill Inc	Wooster

Cargill Inc	Dayton
Cargill Inc	Sidney
Carl Rittberger Sr Inc	Zanesville
Carney's Feed Mill	Batavia
Carrollton Farmers Exchange Co	Carrollton
Case Farms Of Ohio Inc	Winesburg
Caster's Foods Inc	Lorain
Caven's Meats Inc	Conover
Central Soya Co Inc	Marion
Central Soya Co Inc	Delphos
Cepas Inc	Columbus
Cereal Food Processors Inc	Cleveland
Cheryl & Co Inc	Westerville
Chiquita Brands International	Cincinnati
Choices Inc	Pickerington
Chris Hansen Inc	Elyria
Church & Dwight Co Inc	Old Fort
Cincinnati Bread Co	Mason
Cincinnati Coca-Cola Entrprs	Cincinnati
Cincinnati Preserving Co	Cincinnati
Cincinnati Processing	Cincinnati
Classic Delights	Saint Marys
Cleveland ChopHouse & Brewery	Cleveland
Cleveland Coca-Cola Btlg Co	Bedford Heights
Clovervale Foods Inc	Lorain
Club Chef Inc	Cincinnati
Coca-Cola Bottling Co	Twinsburg
Coca-Cola North America	Columbus
Con Sun Food Industries Inc	Elyria
ConAgra Foods	Nevada
ConAgra Foods	Marion
ConAgra Foods Inc	Loudonville
ConAgra Foods Inc	Sidney
ConAgra Foods Inc	Troy
ConAgra Grocery Products Co	Archbold
ConAgra Grocery Products Inc	Perrysburg
ConAgra Inc	Columbus
ConAgra Snack Foods	Morrill
Cone of West Chester	West Chester
Conn's Potato Chip Co	Columbus
Conn's Potato Chip Co Inc	Zanesville
Conn's Potato Chip Co Inc	Lancaster
Consolidated Biscuit Co	Mc Comb
Consumer Guild Foods Inc	Toledo
Cookie Bouquets Inc	Columbus
Cookies By Design	Niles
Cooper Farms	Van Wert

Cooper Farms	Saint Henry
Cooper Farms Inc	Fort Recovery
Coopers Mill	Bucyrus
Country Maid Ice Cream Inc	Richfield
Country Parlour Ice Cream Co	Cleveland
Country Pure Foods Inc	Akron
Country Spring Farmers Co-Op	Fremont
Crispie Creme Of Chillicothe	Chillicothe
Croissant Etc Corp	Cincinnati
Crumbs Inc	Athens
Cuyahoga Group	North Ridgeville
Dairy Farmers Of America Inc	Fairlawn
Dairymens	Cleveland
Dannon Co Inc	Minster
Davis Bakery Inc	University Heights
Daylay Egg Farms Inc	West Mansfield
Dayton Nut Specialties Inc	Dayton
Decko Products Inc	Sandusky
Degussa Flavors	Cincinnati
Delphos Food Lockers Inc	Delphos
Delphos Poultry Products Inc	Delphos
Deshler Farmers Elevator Co	Deshler
Dickerson Foods Inc	Marion
Diehl Inc	Defiance
Dietsch Brothers Inc	Findlay
Dirusso's Sausage Inc	Youngstown
Doane Products Co	Washington Court House
Dole Fresh Vegetables Co Inc	Springfield
Donahue's Hilltop Supply	Cambridge
Donatos Pizza Inc	Columbus
Donut Scene	Strongsville
Doscher's Candies Inc	Cincinnati
Dr Pepper/Seven Up Bottling	Columbus
Duma's Meats Inc	Mogadore
Dunham's Meats Inc	Urbana
Dunkin Donuts	Cleveland
D'Urso Bakery Inc	Niles
Dutch Country Apple Dumplings	Orrville
Eagle Family Foods Inc	Columbus
Edon Farmers Cooperative Assn	Edon
Einstein Bros Bagels	Canton
Ellenbee-Leggett Co Inc	Fairfield
Equity Group	North Baltimore
Esther Price Candies Corp	Dayton
Ezzo Sausage Co	Columbus
F L Emmert Co Inc	Cincinnati
F W Renner & Sons Inc	Canton

Farbest Brands	Plain City
Farm Supply Center Inc	Zanesville
Farmers Commission Co	ADA
Farmers Commission Co	Upper Sandusky
Farmland Foods Inc	New Riegel
Faroh's Candies Inc	Middleburg Heights
Faroh's Finest Candies Inc	Lorain
Fawn Confectionery	Cincinnati
Fawn Confectionery	Cincinnati
Ferrante Wine Farm Inc	Geneva
Fink Meat Co	Springfield
Flavor Systems Intl Inc	Cincinnati
Fleming's Dairy	Utica
Fort Recovery Equity Exchange	Fort Recovery
Four Bakers	Columbus
Foxtail Foods	Cincinnati
Foxtail Foods	Reading
Fragapane Bakeries Inc	North Olmsted
Frecker's Ice Cream Co	Columbus
Fremont Co	Fremont
Fremont Co	Fremont
Fremont Co	Rockford
Fresh Mark Inc	Canton
Fresh Mark Inc	Massillon
Fresh Sausage Specialists	Fairfield
Fresh Way Foods	Sidney
FreshMark	Salem
Frito-Lay Inc	Wooster
Frostbite	Toledo
Frozen Specialties Inc	Archbold
Fry Foods Inc	Tiffin
FSI MFP Inc	Archbold
G & J Pepsi-Cola Bottlers Inc	Cincinnati
G & J Pepsi-Cola Bottlers Inc	Franklin Furnace
G A Wintzer & Son Co	Wapakoneta
G A Wintzer & Son Co	Wapakoneta
Gardner Pie Co	Akron
Gem Beverages Inc	Wellston
General Mills	Wellston
General Mills Inc	Sharonville
General Mills Inc	Toledo
General Mills Inc	Martel
Gerber & Sons Inc	Baltic
Gerber Feed Service Inc	Dalton
Gerber's Poultry Inc	Kidron
Giannios Candy Co Inc	Struthers
Givaudan Flavors Corp	Cincinnati

Givaudan Flavors Corp	Cincinnati
Gold Star Chili Inc	Cincinnati
Gold Star Chili Inc	Cincinnati
Good Fortunes Inc	Cleveland
Gorant Candies Inc	Youngstown
Graeter's Inc	Cincinnati
Granville Milling Co Inc	Granville
Great Harvest Bread Co	Westerville
Great Lakes Brewing Co	Cleveland
Great Lakes Brewing Co	Cleveland
Great Lakes Cheese Co Inc	Hiram
Great Western Juice Co	Maple Heights
Griffin Industries Inc	Cincinnati
Grippio Potato Chip Co Inc	Cincinnati
Guggisberg Cheese Inc	Millersburg
H Meyer Dairy Co Inc	Cincinnati
H Nagel & Son Co	Cincinnati
H R Davis Candy Co	Canton
Haller Enterprises Inc	Akron
Hamilton Provision Co Inc	Hamilton
Hansen-Mueller Co	Toledo
Harry London Candies Inc	North Canton
Hartville Chocolates	Hartville
Hasselbach Meats Inc	Fremont
Haus Mathias	Canfield
Haute Chocolate Inc	Cincinnati
Hays Orchard Inc	Columbiana
Heartland Breads & Rolls	Worthington
Heffelfinger's Meats Inc	Hayesville
Heineman Winery	Put In Bay
Heinz Frozen Foods	Massillon
Heinz USA	Fremont
Hemmelgarn & Sons Inc	Coldwater
Herman Falter Packing Co Inc	Columbus
Hermann Pickle Farms	Garrettsville
Herold Salads Inc	Cleveland
Herr Foods Inc	Chillicothe
Hess & Clark Inc	Ashland
Hickory Harvest Foods	Akron
Hillson Nut Co	Cleveland
Hi-Point Beef Co	Bellefontaine
Hirzel Canning Co	Northwood
Hoffmann's Sausage Co Inc	Cincinnati
Holmes By Products Co Inc	Millersburg
Holmes Cheese Co	Millersburg
Home Bakery	Coldwater
Home City Ice Co Inc	Bucyrus

Home City Ice Co Inc	Cincinnati
Home City Ice Co Inc	Dayton
Home City Ice Co Inc	Cincinnati
Home City Ice Co Inc	Groveport
Home City Ice Co Inc	Walton Hills
HoneyBaked Ham Co Of Ohio Inc	Cincinnati
Hot Bagels Factory Inc	Cincinnati
Hubbard Feeds Inc	Botkins
Humphrey Co	Cleveland
Husman's Snack Foods Co	Cincinnati
I & K Distributors Inc	Delphos
IAMS Co	Leipsic
Iams Co	Dayton
Iams Co	Lewisburg
Ingredient Innovations Intl Co	Wooster
Inland Products Inc	Rio Grande
Inland Products Inc	Columbus
Instantwhip Foods Inc	Columbus
Inter-American Foods Inc	Cincinnati
International Food Solutions	Bryan
International Noodle Co	Lewis Center
Interstate Brands Corp	Columbus
Interstate Brands Corp	Northwood
Interstate Brands Corp	Akron
Interstate Brands Corp	Columbus
Italian Baking Co	Youngstown
J H Routh Packing Co	Sandusky
J M Smucker Co	Orrville
J T M Food Group	Harrison
Jacoby Packing Co	West Unity
Jefferson Landmark Inc	Bloomington
JES Foods Celina Inc	Celina
JES Foods Inc	Cleveland
Jim Beam Brands Co	Cincinnati
John Morrell & Co Inc	Cincinnati
John Morrell & Co Inc	Springdale
John Stehlin & Sons Co Inc	Cincinnati
Johnson's Real Ice Cream Co	Bexley
Jones Potato Chip Co	Mansfield
Joseph Adams Corp	Valley City
K & B Acquisitions Inc	Dayton
Kaase Baking Co	Akron
Kah Meats	Wapakoneta
Kaiser Foods Inc	Cincinnati
Kalmbach Feeds Inc	Upper Sandusky
Karn Meats Inc	Columbus
Kathryn's Kookies	Youngstown

Keebler Co	Fremont
Kelble Brothers Inc	Berlin Heights
Kellbran Candy & Snacks	Akron
Keller Grain & Feed Inc	Greenville
Kellogg Co	Worthington
Kellogg Co	Zanesville
Kellogg's Inc	Cincinnati
Kennedy's Bakery Inc	Cambridge
Kerry Ingredients US	Covington
Keynes Brothers Inc	Logan
Keystone Brand Meats Inc	Lima
King Feed & Supply Inc	West Liberty
King Kold Inc	Englewood
King Nut Companies	Solon
Kirke's Homemade Ice Cream Inc	Saint Clairsville
Kiss-N-Korn	Cleveland
Klosterman Baking Co Inc	Springfield
Klosterman Baking Co Inc	Cincinnati
Klosterman Baking Co Inc	Saint Bernard
Koch Foods Inc	Fairfield
Kraft Foods Inc	Farmdale
Kraft Foods Inc	Coshocton
Kraft Foods Inc	Toledo
Kraft Foods North America Inc	Toledo
Kravitz Bagels Inc	North Jackson
Krispy Kreme Doughnut Corp	Cincinnati
Krispy Kreme Doughnut Corp	Columbus
Krispy Kreme Doughnuts	Akron
Krispy Kreme Doughnuts	Columbus
Krispy Kreme Doughnuts	Cuyahoga Falls
Kroger Co	Cincinnati
Kroger Columbus Bakery	Columbus
Krusinski Finest Meats	Cleveland
Krusinski's Finest Meat Prdts	Cleveland
Kull Packing Co	Yorkville
L & W Egg Products Inc	Millersburg
L E Sommer & Sons Mill Inc	Kidron
L E Sommer & Sons Seville Inc	Seville
L J Minor Factory	Cleveland
La Marquise Inc	Columbus
La Perla Inc	Toledo
Lake Erie Frozen Foods Mfg Co	Ashland
Lakeview Farms Inc	Delphos
Land O' Lakes Inc	Massillon
Land O'Lakes Farmland Feed LLC	Lima
Land O'Lakes Inc	Washington Court House
Land O'Lakes Inc	Kent

Lax & Mandel Kosher Bakery Co	Cleveland Heights
Lee Williams Meats Inc	Toledo
Loudonville Farmers Equity Co	Loudonville
Luc Ice Inc	Port Clinton
Luckey Farmers Inc	Woodville
Luigino's Inc	Jackson
Mahan Packing Co Inc	Bristolville
Main Street Gourmet	Cuyahoga Falls
Malcolm Meat Co	Northwood
Malley's Chocolates	Cleveland
Malley's Chocolates Inc	Lakewood
Malt Products Corp	Dayton
Mane Inc	Milford
Maramor Chocolates LLC	Columbus
Marie's Candies	West Liberty
Marinacci Partnership	Lancaster
Marshallville Packing Co Inc	Marshallville
MarshmallowCone Co	Cincinnati
Martin Meat Mart Inc	Forest
Masterfoods USA	Columbus
Maya's European Shoppe	Cincinnati
McJak Candy Co LLC	Medina
Medina Farmers Exchange Co	Medina
Meier's Wine Cellars Inc	Cincinnati
Melchers Flavors of America	Fairfield
Mennel Milling Co	Fostoria
Mennel Milling Co	Fostoria
Mercer Landmark Inc	Celina
Metro Beverage Co Inc	Columbus
Miami Valley Feed & Grain Co	New Carlisle
Miceli Dairy Products Co	Cleveland
Michael's Bakery Inc	Cleveland
Mid American Ventures Inc	Valley View
Middlefield Cheese	Middlefield
Middlefield Original Cheese	Middlefield
Mid's Spaghetti Sauce	Navarre
Mike-Sells Potato Chip Co	Dayton
Miller Brewing Co	Trenton
Millersburg Ice Co	Millersburg
Minerva Cheese Factory	Minerva
Minster Farmers Co-Op Exchange	Minster
Modern Food Processors Inc	Cleveland
Mrs Millers Homemade Noodles	Fredericksburg
Multifoods Inc	Elyria
National Fruit/Vegetable Tech	Baltimore
Naturally Fresh	Cincinnati
Nestle Purina Pet Care	Zanesville

Nestle USA	Cleveland
Nestle USA Inc	Solon
New Bakery Co Of Ohio Inc	Zanesville
New Horizons Baking Co Inc	Norwalk
New Horizons Meats & Distbn	Cincinnati
New York Frozen Foods Inc	Bedford Heights
Newark Meat Supply Inc	Newark
Nickles Bakery Inc	Martins Ferry
Nickles Bakery Of Ohio	Lima
Norcia Bakery	Canton
North College Hill Bakery	Cincinnati
O' Danny Boy	Dayton
Oasis Mediterranean Cuisine	Toledo
Ohio Beverage Systems Inc	Cleveland
Ohio Packing Co	Columbus
Ohio Packing Co	Columbus
Ohio Pet Foods Inc	Lisbon
Ohio Processors Inc	London
Old Firehouse Winery Inc	Geneva
Olmsted Ice Inc	Cleveland
Olson's Sweet Temptations	Ashtabula
Olympia Candies	Strongsville
Organic Technologies	Newark
Orlando Baking Co Inc	Cleveland
Osman's Pies Inc	Stow
Ottawa Foods	Ottawa
Paisley Farm Inc	Willoughby
Paramount Distillers Inc	Sandusky
Paramount Distillers Inc	Cleveland
Park Poultry Inc	Canton
Peak Foods LLC	Troy
Pearl Valley Cheese Co	Fresno
Peggy's Pride	Columbus
Pemberville Foods	Pemberville
Pepperidge Farm Inc	Columbus
Pepperidge Farm Inc	Willard
Pepsi Americas Inc	Dayton
Pepsi-Cola Americas	Cincinnati
Pepsi-Cola Bottling Co	Columbus
Pepsi-Cola Bottling Co	Mansfield
Pepsi-Cola Central	Twinsburg
Pepsi-Cola General Bottlers	Lima
Pesce Baking Co Ltd	Youngstown
Pettisville Grain Co	Pettisville
Pettisville Meats Inc	Pettisville
Phillips Syrup Corp	Cleveland
Pierre's French Ice Cream Co	Cleveland

Pinata Foods Inc	Cleveland
Pioneer Hi-Bred International	Grand Rapids
Pioneer Packing Co Inc	Bowling Green
Piqua Pizza Supply Co Inc	Piqua
Piqua Poultry Co	Piqua
Popcorn Outlet	Columbus
Poppee's Popcorn	North Ridgeville
Portion Pac Inc	Mason
Poulakos Bakery Inc	Youngstown
Premium Meats Inc	Warren
Pressler's Meats Inc	Akron
Pro-Pet LLC	Saint Marys
Purity Foods Inc	Clayton
Quality Bakery Co	Columbus
Quality Meats Inc	Columbus
Quality Natural Casing Co	Cincinnati
Queen City Sausage & Provision	Cincinnati
Ralston Foods	Lancaster
Reiter Dairy Inc	Akron
Reiter Dairy Inc	Akron
Reiter Dairy Inc	Springfield
Republic Mills Inc	Okolona
Ribs King Inc	Cincinnati
Rich Products Corp	Hilliard
Richelieu Foods Inc	Washington Court House
Riley's Bakery & Delivery	Newark
Robert A Malone	Waverly
Robert Winner Sons Inc	Osgood
Rocky River Brewing Co	Rocky River
Rold Gold Frito Lay	Canton
Rolling Pin Pastry Co Inc	Cincinnati
Root's Poultry Inc	Fremont
Ross Laboratories	Columbus
Ross Products Division	Columbus
Rossi Pasta Factory Inc	Marietta
Rothschild Berry Farm Inc	Urbana
Rowe Premix Inc	West Manchester
Royal Donut	Parma
Rudolph Foods Co Inc	Lima
Sabina Farmers Exchange	Sabina
Samuel Adams Brewery Co	Cincinnati
Sanco Foods Inc	North Canton
Sandridge Food Corp	Medina
Sandusky Filling & Brittle	Sandusky
Sandusky Ice	Sandusky
Sanese Services	North Canton
Sanese Services & Catering	Columbus

Sara Lee Foods	Cincinnati
Sara Lee Foods	Cincinnati
Savory Foods Inc	Portsmouth
Schindler's Broad Run Cheese	Dover
Schlessman Seed Co	Milan
Schneider's Bakery Inc	Westerville
Schott Feed & Supply Inc	Alliance
Schuler's Bakery Inc	Springfield
Schwebel Baking Co	Cuyahoga Falls
Schwebel Baking Co	Youngstown
Schwebel Baking Co	Solon
Schwebel Baking Co	Cuyahoga Falls
Schwebel Baking Co	Hebron
Servatii Inc	Cincinnati
Shasta Beverages Inc	Columbus
Shearer's Foods Inc	Brewster
Shepard Grain Co Inc	Urbana
Sidari's Specialty Pasta	Cleveland
Sidney Bakery	Sidney
Siemer's Distributing Co	New Lexington
Skally's Old World Bakery Inc	Cincinnati
Skyline Chili Inc	Fairfield
Smith Dairy Products Co Inc	Orrville
Snyder International Brewing	Cleveland
Solae LLC	Bellevue
Sophie's Choice Inc	Garfield Heights
Sorensen's Products Inc	Port Clinton
South Side Packers	Wayne
Spangler Candy Co	Bryan
Specialty Products/Gorton Grp	Brook Park
Springdale Ice Cream/Beverage	Springdale
Spudnut Donut	Mentor
Star Of The West Milling	Kent
Stearns & Lehman Inc	Mansfield
Sterling Stores LLC	Wauseon
Storer Meat Co Inc	Cleveland
Strasburg Provision Inc	Strasburg
Sugar Creek Packing Co	Dayton
Sugar Creek Packing Co	Washington Court House
Sun Seed Co Inc	Bowling Green
Sunrise Foods Inc	Columbus
Superior Dairy Inc	Canton
Suzin L Chocolatiers	Elyria
S-W Mills Inc	Archbold
T Marzetti Co	Columbus
T Marzetti Co	Millersburg
T Marzetti Co	Columbus

T Marzetti Co	Columbus
Tamarack Farms Dairy	Newark
Tank's Meats Inc	Elmore
Tarrier Foods Corp	Columbus
Tastee Apple Inc	Newcomerstown
Tedeschi Italian Bakery	Worthington
Tem-Cole Inc	Mc Clure
Thirsty Dog Brewing Co	Canton
Thurn's Bakery & Deli	Columbus
Tia Rosa Bakery Of Ohio	Toledo
Toft Dairy Inc	Sandusky
Total Ultimate Foods Inc	Columbus
Town & Country Co-Op	Lagrange
Tri-State Beef Inc	Cincinnati
Tri-State Ice	Bridgeport
Trophy Nut Co	Tipp City
Tropical Nut & Fruit Inc	Columbus
Troyer's Trail Bologna Inc	Dundee
Tucker Packing Inc	Orrville
Turk Brothers Custom Meats	Ashland
Tyler Meat Co	Toledo
Unger's Kosher Market Inc	Cleveland Heights
United Canning Corp	North Lima
United Dairy Farmers Inc	Norwood
United Dairy Farmers Inc	Cincinnati
United Dairy Inc	Martins Ferry
V & V Enterprises Inc	Warren
Van Roy Coffee Co	Cleveland
Variety Food Service	Cleveland
Velvet Ice Cream Co Inc	Bucyrus
Velvet Ice Cream Co Inc	Utica
Virmurco Inc	Medina
Wal-Bon Corp	Belpre
Wallingford Coffee Co	Sharonville
Warren Baking Co	Warren
Wassler Meats Inc	Cincinnati
Weaver Brothers Inc	Versailles
Weaver Meats Inc	Painesville
Werling & Sons Inc	Burkettsville
Western Reserve Farm Co-op	Jefferson
White Castle Evendale Bakery	Cincinnati
White Feather Foods Inc	Wapakoneta
Whiteford Food Products Inc	Versailles
White's Meat Processing	Peebles
Whitewater Processing Co	Harrison
William Graystone Winery	Columbus
Willoughby Brewing Co	Willoughby

Winans Fine Chocolates/Coffee	Piqua
Woeber Mustard Mfg	Springfield
Wolfies Roasted Nuts	Findlay
Wonder Bread Hostess Cake	Mansfield
Wonder Hostess Bakery	Belpre
Wornick Co	Cincinnati
Worthmore Food Products Co	Cincinnati
Wyandot Inc	Marion
Y Z Enterprises Inc	Maumee
Yarnell Brothers Inc	Deshler
Yost Candy Co Inc	Dalton

Farms by County
 (From the 2002 Ohio Department of Agriculture Annual Report)

County	Number of Farms	Total Land in Farms (acres)	Corn for Grain (Bu.) Hrvstd Acres	Soybeans (Bu.) Hrvstd Acres	Wheat (Bu.) Hrvstd Acres	Oats (Bu.) Hrvstd Acres	All Hay (Ton) Hrvstd Acres	Tobacco (lb.) Hrvstd Acres	Proc. Tomatoes (Ton) Hrvstd Acres	All Cattle & Calves	Milk Cows	All Hogs & Pigs	All Sheep & Lambs
Adams	1,480	200,000	12,500	18,600	3,000		38,300	1,430		24,800	3,200	10,700	1,100
Allen	1,060	198,000	56,400	81,600	16,300		5,300			8,300		35,600	
Ashland	980	175,000	28,200	36,300	7,500	2,500	25,500			27,000	8,600	14,300	3,200
Ashtabula	1,260	166,000	13,300	2,100	4,100	1,700	36,500			20,000	7,000	3,400	1,300
Athens	540	85,000	1,800	1,400			20,100			9,600	1,000		1,300
Auglaize	1,130	212,000	55,600	95,700	20,800		11,300			20,500	6,400	41,300	1,700
Belmont	600	144,000	1,000				46,500			21,900	2,300		1,600
Brown	1,630	208,000	2,100	81,400	2,400		25,300	1,960		18,100	1,400	4,300	
Butler	1,000	144,000	23,900	35,400	6,700		16,800			16,000	1,500	15,400	
Carroll	790	120,000	7,900	5,300	1,800	1,600	33,100			16,100	3,100		
Champaign	900	218,000	70,900	90,700	7,000		11,400			14,300	3,000	21,100	1,300
Clark	800	185,000	55,500	71,600	5,900		10,100			10,500		14,200	
Clermont	910	101,000	11,500	42,000			11,700	450		6,800		1,600	
Clinton	850	222,000	54,900	112,000	8,500		5,900			8,000		25,000	1,200
Columbiana	1,160	149,000	13,300	12,800	5,800	2,600	37,200			24,500	10,200	4,900	2,200
Coshocton	930	168,000	21,800	14,600	2,800	1,100	30,200			22,000	3,200	22,200	3,300
Crawford	760	226,000	68,400	98,900	23,500		7,000			9,900	1,200	42,400	1,600
Cuyahoga	160	6,000					1,700						
Darke	1,980	346,000	106,700	150,800	20,800		15,300		680	27,500	8,200	126,400	2,000
Defiance	920	203,000	43,700	103,900	17,300		6,800			10,300	1,900	11,000	1,200
Deleware	760	175,000	34,500	75,800	11,200		8,700			5,300		16,000	1,300
Erie	390	90,000	25,400	38,700	6,600		3,900			4,100		4,000	1,300
Fairfield	1,160	204,000	50,700	62,300	11,300		18,600			16,400	1,600	15,200	1,200
Fayette	560	243,000	69,000	118,000	10,000		9,200			5,700		18,700	2,200

Franklin	589	101,000	17,000	39,000	52,000		5,400		2,600		4,400	1,200
Fulton	940	211,000	78,600	91,300	13,500		4,700	760	19,000	1,400	61,900	
Gallia	790	113,000	2,700	2,100			25,000	710	20,100	1,200	1,600	
Geauga	670	58,000	2,900	1,700		1,300	18,800		7,800	3,300	1,100	
Greene	910	192,000	51,300	70,700	6,000		8,800		9,300		20,800	2,000
Guernsey	860	137,000	3,300	1,900			42,500		20,000	1,300	5,100	2,800
Hamilton	390	35,000	3,700	4,700			4,900		2,500		1,000	
Hancock	1,120	287,000	76,800	130,200	31,500		5,400		4,200	1,100	25,200	1,700
Hardin	960	260,000	66,000	118,800	18,700	1,000	7,800		10,000	2,200	39,700	2,000
Harrison	460	113,000	2,500				33,400		13,400	2,400		5,000
Henry	940	245,000	69,700	100,800	29,000		7,900	670	5,600	1,100	12,100	
Highland	1,380	245,000	28,000	99,000	9,900		27,100	350	21,800	1,000	10,500	1,900
Hocking	530	61,000	2,300	1,700			10,200		4,100			1,000
Holmes	1,610	178,000	15,100	11,300	2,900	6,300	44,800		41,700	16,100	27,000	2,400
Huron	800	229,000	56,300	93,200	20,000		8,200		8,900	3,100	18,000	1,700
Jackson	490	85,000	2,800	2,300	1,100		20,500	70	12,500			
Jefferson	500	78,000	1,600				24,700		10,200	1,000	1,000	
Knox	1,280	219,000	38,800	50,200	5,700	1,400	34,200		23,600	6,000	16,900	6,200
Lake	280	16,000					4,100					
Lawrence	570	62,000	1,200	1,200			9,500	210	6,400			
Licking	1,470	245,000	37,200	65,800	6,900		33,800		21,800	3,500	14,300	3,300
Logan	940	224,000	56,300	92,000	10,400		12,900		14,300	2,800	18,500	2,400
Lorain	910	137,000	16,500	54,200	9,000		13,000		10,600	3,800	9,200	
Lucas	380	78,000	22,600	30,800	6,100		1,600		1,600		10,600	
Madison	730	259,000	76,500	122,700	9,200		9,100		11,800	1,500	12,700	1,500
Mahoning	660	81,000	11,300	11,600	3,400	1,400	16,100		12,300	4,200	3,500	
Marion	600	220,000	51,600	111,500	15,100		5,100		8,000	1,600	25,100	2,600
Medina	1,040	110,000	11,500	26,700	5,800	1,400	18,300		11,900	4,300	2,700	1,000
Meigs	560	85,000	2,500	1,400			22,800		10,100			
Mercer	1,440	273,000	73,700	102,000	20,100	1,700	22,900		41,900	16,800	145,200	
Miami	1,120	210,000	64,300	86,400	9,100		8,800		9,300		25,600	1,900

Monroe	680	112,000	1,300			31,000		15,000	1,500		
Montgomery	910	116,000	29,800	46,700	4,500	9,200		5,400		13,500	
Morgan	630	108,000	2,800	1,100		24,500		14,400	1,100	5,800	1,100
Morrow	870	173,000	38,300	67,800	11,100	10,700		10,500	2,000	17,500	2,800
Muskingum	1,190	189,000	11,800	11,800	2,500	44,600		27,900	1,900	11,000	3,200
Noble	640	104,000	1,000			25,400		11,600			1,100
Ottawa	510	107,000	14,500	57,800	12,700	4,600		1,200		4,300	
Paulding	650	226,000	48,900	118,900	34,200	4,900		5,700	2,900	7,200	
Perry	730	103,000	16,200	11,800	2,700	17,600		10,900		2,600	1,300
Pickaway	780	269,000	78,700	115,500	21,500	10,100		10,200	1,200	20,200	1,100
Pike	440	88,000	6,600	12,000		12,900	80	8,400			
Portage	790	93,000	11,500	16,800	3,700	1,000 18,000		9,000	2,400	2,000	1,000
Preble	1,180	212,000	61,900	90,500	8,600	9,800		14,900	1,200	47,700	1,400
Putnam	1,440	293,000	68,400	138,000	38,900	11,200	1,980	11,600	3,600	56,500	1,000
Richland	970	164,000	26,000	44,100	7,700	1,500 21,400		20,200	5,900	11,500	1,200
Ross	890	259,000	43,700	62,000	15,300	21,700		19,600		8,200	2,000
Sandusky	900	204,000	51,100	87,200	16,500	8,400	820	6,900		11,300	1,000
Scioto	710	104,000	5,800	16,400	1,300	17,500	180	11,000		1,000	
Seneca	1,330	297,000	69,000	120,600	33,700	1,500 6,900		11,800	1,100	33,600	2,800
Shelby	1,080	212,000	55,800	92,000	13,200	11,300		20,500	6,700	31,700	1,700
Stark	1,280	146,000	24,500	23,800	5,700	2,300 26,700		26,000	10,900	8,200	1,400
Summit	290	17,000	1,400	2,500		3,700		1,700			
Trumble	970	122,000	16,300	23,800	3,900	1,700 20,800		13,100	3,200	1,100	
Tuscarawas	1,060	152,000	13,900	11,100	2,600	1,400 37,800		30,000	11,000	9,000	1,600
Union	920	228,000	42,000	111,400	15,500	10,100		11,900	1,400	24,000	2,600
VanWert	800	250,000	75,900	116,200	17,500	2,900		3,800	2,000	14,600	
Vinton	290	50,000	1,000			11,800		3,600			
Warren	870	128,000	12,000	41,000	4,400	11,500		7,400		5,000	
Washington	990	144,000	9,200	6,800	1,900	27,200		21,900	2,700	6,900	2,000
Wayne	1,810	249,000	44,900	42,700	10,200	4,900 49,700		79,000	33,800	40,700	4,000
Williams	920	211,000	45,400	82,900	15,200	6,900		16,300		17,600	1,200

Wood	1,180	319,000	89,700	141,400	41,500	7,200	750	5,700	10,200	1,100
Wyandot	680	216,000	57,600	98,000	22,800	3,300		6,700	49,200	

Landfills

Landfill Name	Place
Ashland County Landfill	Ashland
Athens-Hocking Reclamation Center	Nelsonville
AWS Mahoning Landfill	New Springfield
BFI-Willowcreek Landfill	Atwater
Bigfoot Run SLF	Morrow
Brown Brothers Landfill	
Brown County Landfill	Georgetown
Buckeye Reclamation Landfill	
Celina Sanitary Landfill	Celina
Central Wastes, Inc. Landfill	Alliance
City of Brooklyn Landfill	Brooklyn
City of East Liverpool Landfill	East Liverpool
City of Saint Marys Landfill	St Marys
City Westlake Landfill	Westlake
City Xenia Landfill	Xenia
Cleveland Land Development Landfill	Brooklyn Heights
County Environmental-Wyandot Landfill	Carey
County Recycling & Disposal Landfill	East Sparta
Crawford County Sanitary Landfill	Bucyrus
Crossridge Landfill	
Defiance County Landfill	Defiance
Eire County SLF	Huron
Fairfield Sanitary Landfill	Amanda
Fowler Landfill	Fowler Township
Franklin County SLF	Grove City
Gallia County Landfill	Bidwell
Geneva Landfill	Geneva
Glenwillow Sanitary Landfill	Solon
Hancock County Sanitary Landfill	Findlay
Hardin County Landfill	
Henry County Landfill	Malinta
Hoffman Road Sanitary Landfill	Toledo
Holmes County Landfill	Millersburg
Huron County Landfill	Willard
Lake County Solid Waste Landfill	Painesville
Landfill	Twinsburg
Landfill	Findlay
Landfill	Springfield
Kimble Sanitary Landfill	Dover
Middletown City Landfill	Middletown
Miller City Landfill	
Montgomery County Landfill	Dayton
Mt Eaton East Landfill	Navarre
Nicky Boulevard Landfill	
Noble Road Landfill	Shiloh
Pike Sanitation Landfill	Waverly
Pine Grove Regional Facility Landfill	Amanda
Preble County Landfill	Easton
Putnam County Landfill	Ottawa
Reserve Environmental Services Landfill	

Rossford Landfill	
Royalton Road Sanitary Landfill	Broadview Heights
RWS Beech Hollow Landfill	Wellston
Scioto Sanitation Landfill	
Triangle Landfill	South Salem
Village Cedarville Landfill	Greene
Williams County Landfill	Bryan
Wood County Landfill	Bowling Green
WMI Suburban R & D Landfill	Glenford

Wood Manufactures In Ohio

Dry Kiln

Company

Adelmann & Clark Lumbuer Company
American Lumber/st James Div
Baird Bros Inc
Breithaupt Lumber Co
Butler Wood Products
Bohlke Veneer Corporation
Cabinet Shop
Canfield Mfg.Co
Cincinnati Kiln Drying
Crook Miller Co
Curtiss Hardwood
Croy-marietta Hardwood, Inc.
Echo Point Hardwood Pro, Inc
Farinacci Lumber Co
Hillsboro Wood Products Inc
Hardwood Flooring and Paneling
Industrial Timber & Land
Merillat Industries
Mersman Tables/somers Corp
Mid American Lumber
Midwest Wood Products
Mills Pride
Muth Lumber Company
Pleasant Hill Lumber Co
Roettger Hardwood Inc
Sauder Manufacturing Co Inc
Seaway Lumber Company
Seikfert Lumber Co
Sheoga Hardwood Flooring Panl
Taylor Woodcrafts
Willis Dry Kilns Inc

City

Mcarthur
Iberia
Canfield
Dresden
Butler
Fairfield
Wilmington
Canfield
Cincinnati
Hicksville
Botkins
Marietta
Port Washington
East Claridon
Hillsboro
Burton
Mcarthur
Jackson
Celina
Piketon
Wooster
Waverly
Ironton
Butler
Kettlersville
Archbold
Bedford
Delphos
Burton
Malta
Washington

Saw Mill

A.R. Dille & Sons
Adelmann Lumber Co
Allen Lumber
Arrowhead Lumber
Atlee Hochstetler & Sons
B & L Lumber
Bach Lumber
Bargdill Hardwood Lumber Co
Barker Lumber Company
Barnes Sawmill
Bartlett Brothers
Becker Sawmill
Beechvale Logging & Lumber
Berlin Fruit Box Co
Berry Sawmilling
Blake Woods
Blaney Hardwoods of Ohio Inc
Blaney Lumber Co
Blaney Lumber Co

McConnelsville
McArthur
Jefferson
Fredericksburg
West Union
Homerville
Salineville
West Mansfield
Piketon
Chesterland
Fredericktown
Waterville
Fredricksburg
Berlin Hts
Schreve
Stewart
Barlow
Bethesda
Hartford

Blue Creek Farms	New Concord
Bluegrass Cooperage	Jackson
Brewster Hardwood Lumber	Streetsboro
Brewster Hardwood Lumber Co	Streetsboro
Brown Brothers Lumber Company	Otway
Brown Forest Products	West Union
Burden Sawmill	Waynesfield
Butler Wood Products	Butler
Circleville Hardwoods	Circleville
Clagg's Pallet Shop	Oak Hill
Clarksville Stave & Lumber Company	Xenia
Coblentz Bros. Inc	Applecreek
Cole Lumber Company	Bloomville
Conway Lumber Company	McArthur
Crownover Lumber Company	McArthur
Cunningham Lumber Co	Applecreek
D&P Speciality Inc	Glenford
Dale W. Riddle Forest Products	Laurelville
Denoon Lumber Company	Bergholz
Dewitt's Sawmill	Sunbury
Donald Morris Sawmills	Macksburg
Doughty Wood Products	Millersburg
Dyer Brothers	Northup
E.B. Miller Inc	Murray City
Earich Lumber Co	McConnelssville
Eickhorn Lumber Co	Bucyrus
Ervin Raber Lumber Co	Millersburg
Facemeyer & Salmons	Middleport
Farmerstown Lumber	Baltic
Fiest Hardwoods Inc	Newtown Falls
Fivecoat Lumber	Gnadenhutten
Floyd Mackey & Sons	Raymond
Frank's Sawmill	Stryker
Gardner Lumber Co	Tippecanoe
Gilders Sawmill	Delta
Glandon Lumber Co	McArthur
Grand River Hardwood Co	Chardon
Graybill Hardwood Lumber Company Inc	Roseville
Green Brothers Enterprises	Sardinia
Green Ridgewood Products	Fresno
Gross Lumber Company	Applecreek
Hackworth Sawmill & Lumber Company	Blue Creek
Haessly Lumber Co	Marietta
Haley's Sawmill	McComb
Hamm's Lumber & Pallet Co	Gratis
Hardly Able	Wellston
Hardwood Lumber co	Burton
Harold McDonald Lumber Sawing	Newark
Hartzell Industries	Piqua
Hershberger Lumber Company	Millersburg
Hess & Galt Lumber Company	Ashland
Hillcrest Lumber Co	Applecreek
Hipp Lumber Co	Millersburg
Hoffman Sawmill	Holgate
Hoge Lumber Co	New Knoxville
Hollon Lumber Co	Bainbridge
Hug Lumber Company	Edon

Hunington Hardwoods
J.A. King and Sons
J. McCoy Lumber Co
J.W.Smith Lumber
Jackson Pallet
James Wright Sawmill
Jay Nichol
Jefferson Piling & Lumber Co
K&K Lumber Co
K&K Wood Products
K.M. Green Sawmill
Kaple Lumber Co
Kenmac Lumber Co
Kessler Bros Lumber Co Inc
Knisley Lumber Co
Knisley Lumber Co
Knoxville Lumber Co
Kreis Sawmill
Legg & Acord Lumber Co Inc
Lewisville Hardwood
Little Walnut Sawmill
Longaberger Mfg Inc
M&M Hardwoods Sugar Creek
MJ Sawmill
M.B. Walters
Magsig Sawmill
Marsh Lumber Co
Miami Valley Hardwoods
Mid America Lumber
Milcreek Hardwood
Miller Logging & Lumber Sales
Millwood Lumber
Morrison's Lumber
Mt.Eaton Lumber Co. Inc
McArthur Lumber & Post Co Inc
Native Manufacturing Inc
Ney Lumber Co
Norman-Doll Lumber Co
O.Ames Company
Oborn Lumber Co
Ohio Pallet Co
Ohio Stave Company Inc
Preston Hollow Sawmill
Price Lumber Co
R&D Hilltop Lumber
R&H Pallet Company
R&L Logging
Raber Lumber Co
Redouty Sawmill & Lumber
Reeder Lumber Co
Richard Haren & Sons Lumber
Rummell Lumber Inc
Rutschilling Inc
S&J Lumber Co
Salt Creek Lumber Co
Sanor Saw Mill Inc
Schlabach Lumber Co

Wellington
Somerset
Peebles
Piketon
Ewington
Piqua
Peebles
Jefferson
New Washington
Windham
Cygnet
New Washington
Newport
Logan
Peebles
Bainbridge
Toronto
Milford Center
Piketon
Lewisville
Sunbury
Dresden
Sugar Creek
Salem
Blissfield
Woodville
Dover
Belle Center
Elm Grove
Middlefield
W. Manchester
Dundee
Dorset
Mt. Eaton
McArthur
Lewisville
Ney
Southington
Dexter City
Kenton
Pomeroy
Zanesville
Newark
Oak Harbor
New Lexington
Bergholz
Zainsville
Charm
McDermont
Butler
Woodsfield
Paris
St.Henry
Thurman
Fredricksburg
Beloit
Berlin

Schott Lumber Co Inc	Caldwell
Schott Sawmill	Caldwell
Semac Industries inc	Millersburg
Shanks Post and Lumber	Piketon
Sherwood Forest Products	Waverly
Siefker Sawmill	Elida
Smith Logging & Lumber	Lisbon
Snyder Lumber Co	Frazeysburg
Stephens Lumber Co	Arcanum
Stonelick Sawmill	Amelia
Stoney Point Logging Co	Sugar Creek
Summit Valley Lumber	Applecreek
Superior Hardwood of Ohio	Cambridge
Superior Hardwoods of Ohio Inc	Wellston
Swick Timber Products	St. Louisville
Swisher Lumber Co	Shelby
T&D Thompson Inc	Laurelville
Taylor Lumber Company Inc	McDermont
Taylor Ramsey Corp	Middlefield
Thompsons Sawmill	North Lewisburg
Toth's Sawmill	Chargin Falls
Troyer Lumber Co	Sugar Creek
True Temper Corp	Wilmington
Trumble County Hardwoods	Middlefield
Union Fork & Hoe	Deleware
Valley Veneer & Lumber Co	Williamsfield
Vic Cardi	Oak Hill
Virgil Moon & Sons	Mt. Orab
Wagner Farms & Sawmill	Leipsic
Waldron Lumber Co	Hamden
Weaver Lumber Co	Bradner
Welawood Inc	West Lafayette
West Salem Hardwood Co	West Salem
Wilmington Forest Products	Wilmington
Wilson Lumber	Woodsfield
Winesburg Hardwood Lumber & Palttet CC	Dundee
Wolf Brothers Lumber Co	Junction City
Wolf Lumber Co	Fleming
Wolf's Sawmill Inc	Kenton
Wooldgidge Lumber Co	Piketon
Yoder Lumber Co	Sugar Creek
Yoder's Sawmill	Middlefield
Zaleski State Forest	Zaleski

Small Secondary Manufacturing Sector

20th Century Custom Cabinets	Mount Sterling
A&G Headboard Mfg Inc	Cleveland
A&J Woodworking	Delphos
A&M Pallet Shop	Middlefield
AA Exterior Remodeling/Awning	Toledo
A C I Custom Cabinetry Inc	Bedford Heights
Accent Mfg inc	Akron
Accent Millworks Inc	Conneaut
Acu-Mac Wood Products	Columbus
Adelmann Lumber Co Inc	McArthur
Adept Products Inc	West Jefferson

Advance Building Systems	Paulding
Advanced Cabinetry	Columbus
After Hours Country Craft	Leipsic
Aicholtz Co	Cincinnati
Akron Chair Co Inc	Mogadore
Albion Industries Inc	Strongsville
Alidas Art Studio	Struthers
All Wood Products	Wooster
Alpine Cabinets	Medina
Alpine Structures & Lumber	Dundee
American Country Reproduction	Massillon
American Excelsior Co	Cleveland
American Hardwood Mldg Lumber	Columbia Station
American Wedge Co	Vanlue
Ames Co	Dexter City
Amherst Lumber Co	Amherst
Anderson Co	Carey
Andre, Carl C Inc	Brice
Anford Cabinets & Plastics Inc	Bedford Heights
Appalachian Forest Products Inc	Dayton
Appleby Lumber Mfg Inc	Fremont
Appletree Design Works	Cincinnati
Archer Counter Design	Cincinnati
Architectural Wood Products	Columbus
Acro Wood Products	Felicity
Aristocrat Industries Inc	Mount Vernon
Arrow Pattern Co	Toledo
Art Frame Mfg & Supply Company	Dayton
Art Publishers Inc	Cincinnati
Art Windowshade & Drapery Co	Cleveland
Artisian Custom-Maid Inc	Cleveland
Aster Industries Inc	Akron
Automated Bldg Components	Dayton
Avery Pattern Co	Broadview Heights
Avonova Industry Inc	Lorian
B & B Manufacturing Co	Cincinnati
B & L Timber Co Inc	Homerville
B M I Laminates Inc	South Amherst
Bailey, H & R Cabinet Shop	Zanesville
Baird Cabinet Shop Inc	Canton
Baldwin Enterprises	Dayton
Ball Lumber Co	Salineville
Barn Builders	Hartville
Barrett Industrial Pallet Box Co	Camden
Barrow Sign Co Inc	Cleveland
Bascom Woodshop	Bascom
Basic Cases Inc	North Randall
Bauerbach Cabinetry	Beverly
Bay View Plastics Co Inc	Toledo
Beach City Lumber	Beach City
Beachy Cabinet Co	Plain City
Beauty Maid Mfg Corp	Cleveland
Beckel Cabinet & Supply Co	Marion
Becker's Sawmill	Waterville
Bedford Cabinets	Oakwood
Beekman Bros Inc	Cleveland
Belmont Stamping Co	Shadyside

Berea Pre-Hung Door Inc
Beverly Slag Co
Bills Counter Tops Inc
Biniker, George Wooden Pallets
Bischof Pallet Co
Blaney Lumber
Blauvelt Cabinets/Countertops
Bob O' Barns
Bobbo's Winemaking Supplies
Boerger, U A and Sons Inc
Bonfoey Co
Booth's Crating
Boreman, Phillip Inc
Boss Display Corp
Boston Woodcrafters Inc
Bowman, Jack County Woodcraft
Brandt's Dick Cabinet Shop
Breit's Cabinets Inc
Brewster Lumber Co Inc
Briggs Pattern Shop
Brower Pease Inc
Brownings of Wyoming
Brunkow's Custom Vinyl Covers
Bruns Mfg Co
Buckeye Mfg & Graphics
Buckeye Panel-Ply Inc
Burden Sawmill Inc
Busam, Mike Custom Woodworking
Bushworks Inc
C & H Pallet Co
C & L cabinet Co Inc
C & R Speciality Co
C E I Casework
Cabinet Concepts Inc
Cabinet Connection
Cabinet Craft Co
Cabinet Ctr Inc
Cabinet Design Industries
Cabinet Elegance Inc
Cabinet Systems Inc
Cabinet Works Unlimited
Cabinets Inc
Cabletek Center Products Inc
Cabot Lumber Inc
Camelot-Kincaid Co
Canton Aluminum Mfg Co
Capocciana Custom Cabinets
Caravan Packaging Inc
Cardinal Truss Inc
Carls Cabinet Shop
Carnegie Plastic Laminating Co
Carpenter Woods
Carter Plastics Co
Case Design
Cassady Woodworks Inc
Castle's Cabinets/Counter Tops
Castner, L M Co Inc

Medina
McConnelsville
Saint Clairsville
Perrysburg
Parma
Hartford
Painsville
Thompson
Mantua
Sidney
Cleveland
Akron
Wooster
Columbus
Hillsboro
Jefferson
Rushville
Cleveland
Streetsboro
Lima
Miamisburg
Wyoming
East Cleveland
Huron
Grove City
Tiffin
Waynesfield
Cincinnati
Yellow Springs
Cincinnati
Westerville
Celina
Malta
Oakwood
Blacklick
Akron
Bedford Heights
Youngstown
Warrensville Heights
North Royalton
Canfield
South Point
Elyria
West Lafayette
Norwood
Canton
Grove City
Brook Park
Lockborne
Dayton
East Cleveland
Marietta
Toledo
Georgetown
Dayton
Russells Point
Cincinnati

Ceder Craft Products Inc	Blacklick
Centerville Showcase Inc	Waynesville
Central Ohio Truss & Panel Inc	Newark
Century Last Co Inc	Portsmouth
Cherry Tree Toys and Music Boxes	Cincinnati
Chesko Door & Supply Co	Toledo
Chesterland Cabinet Co	Newbury
Cheyenne Lumber Co Inc	Harrod
Chilcote Pattern Works	Holland
Choice Products	Burton
Chris's Custom Cabinets	Wapakoneta
Church Hill Pallet Inc	Orrville
Cimino Box Co	Cleveland
Cincinnati Art Galleries	Cincinnati
Cincinnati Wood Products Co	Cincinnati
Cirjak Furniture & Design	Ravenna
City Box & Pallet Inc	Dayton
City Pattern Co	Cleveland
Clagg's Pallet Shop	Oak Hill
Clapper's Custom Kitchens	Copley
Clark Cabinet Co Inc	Cleveland
Clark Picture Frame & Gallery	South Euclid
Clark Wood Specialities Inc	North Canton
Classic Cabinet	Zanesville
Classic Equipment Co	Kent
Classic Kitchens & Cabinetry	Oberlin
Cleveland Dowel & Wood Turning	Bay Village
Cleveland Dowel & Wood Turning	Shelby
Cleveland Wood Preserving Co	Maple Heights
Clinton Woodcraft Co	Blanchester
Closet Space Unlimited	Willoughby
Closettee	Watrrensville Heights
Colonial Tool & Electronics	Caledonia
Color Text Inc	Columbus
Columbus Grade Stake Co	Columbus
Columbus Ohio Pattern Inc	Columbus
Columbus Washboard Co	Columbus
Commercial Cabinets	Youngstown
Commercial Woodcrafts Inc	Cleveland
Con-For Wood Products	Rockbridge
Console Tech Inc	Galion
Consolidated Pattern Works Inc	Akron
Contemporary Cabinets	Brookville
Cooper Custom Cabinet	Zanesville
Cooper Enterprises Inc	Shelby
Corlew Industries Inc	Ashtabula
Cornett Aluminum Construction	New Boston
Coshocton Lumber Co	Coshocton
Coshocton Pallet & Box Co	Coshocton
Cotter Advertising Inc	Dayton
Cover Lumber Supply Inc	Cortland
Cox Wood Products Inc	Otway
Cozier Lumber & Box Co	Euclid
Crate To Ship Co	Painsville
Creative Cabinets	Bay Village
Creative Frame & Art Gallery	Canton
Creative Kitchens	Westlake

Creative Woodworks	Grafton
Crestline Wood Products	Plymouth
Crow Lumber co	Vermillion
Crowe's Cabinet's & Carpentry	Lowellville
Crown National Industries	Copley
Custom Cabinets Unlimited	Cincinnati
Custom Counter Top	Cortland
Custom Design Furnishing	Willoughby
Custom Interior Fabrication	Hamilton
Custom Sink Top Manufacturing Co	Lorain
Custom Surfaces Inc	Bedford Heights
Custom Wood	Cincinnati
Custom Wood Products	Columbus
Custom Woodcarving	Garrettsville
Custom Woodworking & Interiors	Cincinnati
Customworks Inc	Columbus
Cutting Edge Woodworks	Miamitown
D & A Pallet Co	Brooklyn
D & B Cabinet Co Inc	Dayton
D & D Custom Design Inc	Garfield Heights
D C Countertop & Carpet	Dover
D R S Industries Inc	Toledo
D S I Parts Inc	Springboro
Damar Products Inc	Sidney
Dani Woods Inc	Cleveland
Danny Cabinet Co	North Royalton
Davis & Sons Pallet Co Inc	Cincinnati
Dawson Co/Costume Division	Cleveland
Del-Mill Wood Products Inc	Little Hocking
Deleware Pallet Co Inc	Deleware
Deluxe Frame Shop	Toledo
Design Hardwood Moldings	Newbury
Designer's Contemp Laminates	Willoughby
Designers Workshop Inc	Mentor
Di Bart, John Cabinets Inc	Wickliffe
Diedrichs Co	Cleveland
Dimensions	Columbus
Diversified Woodworking & Supply	Findlay
Doddington Millwork Inc	Columbus
Don's Carpenter Shop Inc	Newcomerstown
Donnelly, W E Co	Columbus
Door Shop	Coalton
Dover Cabinet Industries	Dover
Dragomer Cabinetry	Chersterland
Duir Doors Inc	Summerfield
E & E Ready Rooms Inc	Saint Clairsville
E P S Specialities Ltd	Cincinnati
Earich Lumber Co	McConnelville
East Claridan Wood Co Inc	Middlefield
East Oberlin Cabinets	Oberlin
East Woodworking Co Inc	Cleveland
Echo Point Hardwoods Inc	Port Washington
Economy Box Corp	Brecksville
Educational Equipment Corp	Kent
Elite Trophy	Canton
Elston Lumber Co Inc	Marietta
Enniskillen Woodworks	Jackson

Eversole Truss	Lancaster
Fairfield Cabinet Shop	Lancaster
Falls Welding & Fabricating	Akron
Faralli Custom Kitchens	Willoughby Hills
Faunce Manufacturing	Toledo
Feicke Sign Co	Cincinnati
Fenwick Gallery of Fine Art	Toledo
Fenwick Gallery of Fine Art	Waterville
Fernandez Art Craft	Bellbrook
Fick Cabinet Co	Niles
Fields, R K Design Studio	Amesville
Fieldview Cabinet & Wood Products	Dover
Figures Packaging Co	Columbus
Findlay Architectural Millwork	Cincinnati
Fleegle Cabinets	Zanesville
Flottemesch, Anthony & Son Inc	Cincinnati
Forest Products Group Inc	Columbus
Form-A-Top Products Inc	Cleveland
Forum Manufacturing Inc	Milford Center
Foster Pattern Works Inc	Columbiana
Fox Floor & Cabinets Inc	Columbus
Frame Shop	Parma
Frame Village Inc	Canfield
Frame Warehouse	Reynoldsburg
Frames Midwest	Dayton
Frانيا Pallets Inc	Fremont
French's Storage Barn & Tower	Hamilton
Fry & Son Builders Inc	Pataskala
Fulco Industries Inc	Bluffton
Functional Furniture/Cabinets	Cincinnati
Furniture By Otmar	Cincinnati
Gallagher Lumber Co	Mantua
Garber Box Co	Greenville
Gardner Lumber Co Inc	Tippecanoe
Gardner Wood Products Co Inc	New London
Genis Woodworking & Design	Willoughby
George's Wood Products	Akron
Gerber Wood Products Inc	Kidron
Getz, Duane Inc	Mansfield
Gift-N Frame Shop	Stow
Gilbert Lumber Co	Smithville
Gledhill Lumber & Components	Galion
Global Packaging Inc	Mason
Gloor Craft Models	Oak Harbor
Golden Ram Gallery	Cincinnati
Gonda Wood Products	Elyria
Gordon & Sons	Newton Falls
Gotthardt, H H & Sons	Garrettsville
Grabo & Sons	Cleveland
Grauduss Inc	Trotwood
Green Bros Enterprises Inc	Sardinia
Greenes Fence Co Inc	Beachwood
Greenfield Fabricating Inc	Canton
Greer Enterprises Inc	Columbus
Gross & Sons Millwork	Lima
Gorve City Cabinet Co Inc	Grove City
Grove Plaque Co	Alliance

Groves Wood Collections Inc	Salem
Guess Manufacturing Inc	Mechanicstown
H & M Sales Inc	Eaton
H & W Woodworking Inc	Cleveland
H B K Quality Consultants	Centerville
Ham Cabinet Inc	Holland
Hampton Custom Kitchens	Fairfield
Hanak Millwork	Harrison
Hang-Ups by Exline	Grafton
Hann Box Works	Malta
Hanna Pallet Co	Cleveland
Hartman Bros Lumber Co	Elida
Hartsgrove Pallets	Windsor
Hartzog, Doyle R Lumber	Paulding
Hastings Frame Shop	Troy
Hatch Awards Inc	North Olmstead
Hayman Wood Products	Cleveland
Heartland Industries Inc	Deleware
Heartland Industries Inc	Hamilton
Heartland Industries Inc	New Carlisle
Heckler-Martz Cabinet Co	Celina
Heller, W C & Co Inc	Montperlier
Helmart Co Inc	Cincinnati
Hemme/Ricke Custom Woodworking	Cincinnati
Henly Corp	Toledo
Heritage Fence Co	Fowler
Hess & Gault Lumber	Ashland
Hills Manufacturing	Columbia Station
Hines Builders Inc	Troy
Hisrich Manufacturing Co Inc	Dover
Hocking Hills Hardwoods	Laurelville
Hoffman Millwork & Builder Service	Madison
Hoge, R W Wood Products	Dover
Hollins Enterprises Inc	Alpha
Holmes County Chair Co	Wilmington
Holmes Wheel Shop	Holmesville
Horine Lumber Co Inc	Delphos
Houghton Sulky Co	Marion
House of 10000 Picture Frames	Dayton
Hribar/Lane Co	Mentor
Hummer Industries Inc	Bedford
Humphrey, Scott Woodworking	Cincinnati
Hunt Wood Products	Coshocton
Hurley Truss Co	Cairo
Hynes Modern Pattern Co Inc	Springfield
I C A Spring Stretchers	Oberlin
I G B	Cleveland
Inclined Plane	Cincinnati
Industrial Crate & Lumber Co	Zanesville
Industrial Hardwood Inc	Perrysburg
Industrial Pallet & Packaging	Middlefield
Industrial Pattern & Manufacturing Co	Columbus
Industrial Pattern Works Inc	Canton
Industrial Sheet Metal Inc	Cleveland
Industrial Wood Manufacturing	Fostoria
Industrial Wood Products	Fremont
Infinity Woodworks	Hamilton

Ingle, W R & Son's Wood Products	Conover
Innovation Development & Research	Middleburg Heights
Innovative Fixtures Inc	Lima
Innovative Furniture & Design	Cleveland
Innovative Woodworking Inc	Cincinnati
Instant Signs	Dayton
Interior Options Inc	Solon
Interstate Construction Components	Canal Fulton
International Container Systems Inc	Cleveland
J & J Beall Inc	Newark
J & W Fabricating Inc	Cleveland
J K Logging & Sawmill Co	Salineville
J P Signs	Vandalia
J T Enterprises	Chillicothe
J-Deck Inc	Columbus
Jackson Fence	Newbury
James Wood Products	Elmore
Jamestown Contemporary Showcase	Boardman
Jefferson Piling & Lumber Co	Jefferson
Jeld-Wen Inc	Mount Vernon
Jim's Customer Kitchen	Lagrange
Jim's Woodworking	Painesville
Jo-El Products	Cincinnati
Johannings Cabinet shop	Louisville
John's Custom Cabinets	Newton
Johnson Wood Products	West Chester
Johnson, Ron Woodworking	New Richmond
Johnson-Doppler Lumber Co	Cincinnati
Johnstown Mill & Showcase Co	Johnstown
Jones Lumber Co	Columbus
K W Manufacturing Co	Springfield
K-Line Cabinets	Novelty
Kabko Cabinets & Counter Tops	Cleveland
Kach-All Portable Building Inc	Franklin Furnace
Katchall Industries	Cincinnati
Kemac Inc	Sidney
Ken-Ed Cabinet Co	Tallmadge
Kenker Box Co Inc	Cincinnati
Kessling's Cabinets	Cincinnati
Kilmer, L O Lumber	Oak Harbor
King-Smith Furniture	West Salem
Kinsella Manufacturing Co Inc	Maderia
Kitcheneering Inc	Cleveland
Knisey Lumber	Bainbridge
Kolar Cabinets Inc	Willoughby
Kramer Mill	Springfield
Krantz Kolonial Woodcrafts	Strasburg
L A Lumber	Piketon
L Z Wood Products	North Royalton
Lake Cabinet & Flooring Inc	Mentor
Lake Erie Upholstering	Lorain
Lakewood Products Co	Grand Rapids
Lakota House Furniture	Lebanon
Laminart	Rittman
Laminated Concepts	Maple Heights
Laminated Dimensions Inc	Canal Winchester
Laminated Room Systems Inc	Dayton

Laminated Specialities
 Langston Pallets
 Larcomb, Lee Lumber & Millwork
 Latelier Custom Woodworking
 Latham Lumber & Pallet Co
 Leading Edge Boomerangs
 Leathercraft Upholstery Co
 Leiden Cabinet Co
 Lepley Builders Inc
 Liberty Custom
 Liechty Specialities Inc
 Lifeshelters Acquestion Corp
 Lima Lumber Custom Milwork
 Lima Pallet Co
 Lisner Cabinets
 Littleton, B T Sign Co Inc
 Lodi Lumber Co
 Lonsway Cabinet & Millwork Co
 Lorain House Lumber Co
 Loveless-Milwork
 Luce Industrial Millwork
 Luther's Builder Supply Inc
 Lutz File & Tool Company
 M B M Lumber
 M L Art Gallery
 Macwood Inc
 Magsig Sawmill
 Malco Laminated Inc
 Manufactures Wood Supply Co
 Maple City Lumber Co
 Maple Leaf Frames Inc
 Marion Pallet Co Inc
 Marlboro Furniture Corp
 Marshall Pallet Shop
 Martin Products Inc
 Master Pattern Works Inc
 Master Wood Products Inc
 McKay Bricker Gallery & Frame
 McRoyal Industries Inc
 Mehrhoff Cabinet Shop
 Meier Cabinets
 Merritt, George A & Co
 Metro Storage & Crating Co Inc
 Miamisburg Cabinet Co
 Mickley's Custom Cabinets
 Midland Panel Co Inc
 Midwest Closets Inc
 Midwest Wood Products Inc
 Mielke Furniture Repair
 Mihalek Millwork
 Mill Custom Wood Products
 Miller Cabinet Co
 Miller Lumber Co
 Miller Wood Products
 Miller's Storage Barn
 Millwood Pallet Co
 Millwork Fabricators inc

Cleveland
 Sidney
 Summit Station
 North Lima
 Latham
 Deleware
 Cleveland
 Strasburg
 Bellevue
 Suffield
 Archbold
 Lancaster
 Lima
 Lima
 Poland
 Columbus
 Lodi
 Tiffin
 Lorain
 Shelby
 Ashtabula
 Cadiz
 Cincinnati
 Union City
 Cincinnati
 Columbus
 Woodville
 Cincinnati
 Cleveland
 Norwalk
 East Palestine
 Marion
 Mogadore
 Lima
 Mason
 Cincinnati
 Solon
 Kent
 Youngstown
 Cincinnati
 Solon
 Mentor
 Avon
 Miamisburg
 Malvern
 Wapakoneta
 Columbus
 Wooster
 Sandusky
 Cleveland
 Whitehouse
 Archbold
 Millersburg
 Columbus
 Millersburg
 Dundee
 Dayton

Mitchell Lumber Yards	Marion
Miter Box	Cincinnati
Model Pattern Co	Maple Heights
Modern American Design Inc	Tallmadge
Modern Wood Products	Painesville
Mdule 21 Building Co Inc	Dayton
Monegan Cabinet Works	Richfield
Monroe Sawmill	Peebles
Montague Equipment Co Inc	Springfield
Moons Woodshed	Brunswick
Morris, Brad Lminates	Loveland
Morris Sign Co	Columbus
Mount Eaton Lumber Co	Mount Eaton
Mount Union Pattern Works Inc	Alliance
Nagle Manufacturing	Ashland
National Design Co	Cincinnati
Native Manufacturing Co Inc	Lewisville
Neil Inc	Cincinnati
Nelson's Case Manufacturing Co	Euclid
New Image Kitchens Inc	Bedford Heights
Ney Lumber Co Inc	Ney
Nodae's, Jerry Cabinets	Poland
North Royalton Cabinets	North Royalton
Northcoast Woodsmith	Tallmadge
Nu-Sash Inc	Norton
Nu-Way Co	Toledo
O'brien Lumber & Construction Co	Canton
Oak Leaf Wood	Hillsboro
Oakwood Furniture	Lowell
Ohio Cabinet Works Inc	Akron
Ohio Plywood Box Co	Cincinnati
Ohio State Pallett & Wood Fabrication	Vickery
Ohio Woodworking Co	Norwood
Options Plus	Fredericktown
Our Home Articles of Wood	Vermilion
P&M Pallet Co	Deleware
P A M Manufacturing Co	South Point
P W M Inc	Newcomerstown
Parker's Pallets Inc	Zanesville
Patio Den Inc	Mentor
Patrician Furniture Builders	Youngstown
Patty Ann Creations	Columbus
Pavillion Remodeling	Cincinnati
Pearson, C Trophies	Willowick
Penisula Hardwoods Inc	Peninsula
Perfect Packaging Co	Perrysburg
Peric Cabinets	Cleveland
Phoenix Woodworking	Cincinnati
Pierpont Wood Inc	Pierpont
Pine Pallet & Framing	Millersburg
Pioneer Homes Inc	Pioneer
Pipes & Pleasures	Whitehall
Placs Plus +	Greenville
Ply-Board Fabricators Co Inc	Col
Portage Hardwood Products Inc	Atwater
Pozzi Window Co	Monroe
Precision Fabrication Products	Versailles

Precision Pallet Inc
Premier Hardwoods International
Princess Vanities & Cabinet Co
Pugh Pallets
Quality Livestock Equipment
Quality Pallet Co
R & H Pallet
R & R Fabricating
Raber Lumber Co
Rainbow Cultured Marble Inc
Ralice Studio
Randy's Countertops
Ranly Cabinets Inc
Rawlins Pallet & Lumber Co
Raytec Systems
Reed Furniture Co
Reed's Supply
Regal Cabinet Inc
Rene Products Co
Resler Custom Cabinet
Rettig Farming & Pallets
Rice Upholstery Inc
Riddle, Arden Furniture
Riedy, Skip & Sons Inc
Rindler, Melvin Construction
Rino's Woodworking Shop Inc
Rite-Way Custom Trailer Mfg
River City Woodworking
River East Custom Cabinets
Riverviel Industrial Products
Robert's World of Laminates
Robinson's Woods
Roger's Pallet Service
Roll-A-Reel Co
Rotary Products
Royal Cabinet Designs
Ruede Cabinets
Rummell Lumber Inc
Russ's Custom Cabinets
S & G Metal Works Inc
S & W Custom Tops Inc
S R Cabinets
Sahr Pattern Inc
Salem Mill & Cabinet Co
Salem Showcase
Sawyer Logging Inc
Schaefer Box & Pallet Co Inc
Schag's Counter Tops
Schank's Kitchens Inc
Schilling Truss Inc
Schrock's Woodworking
Scioto Valley Precast Co
Seal-Rite Door Inc
Sealco Inc
Sealock Woodworking
Second Street Co
Seidle Hardwoods

Toledo
Beachwood
Wintersville
Vandalia
Dalton
Massillon
Bergholz
Cleveland
Charm
Brunswick
Cincinnati
Powell
Minster
Wheelsburg
Stow
Cincinnati
Castalia
Toledo
Cleves
Chargin Falls
Holgate
Columbiana
Copley
Sandusky
Saint Henry
Willoughby
Jackson Center
Fairfield
Toledo
Wooster
Elyria
Girard
Findlay
Cincinnati
Ashley
North Royalton
Lockborne
Paris
Louisville
Columbus
Boardman
Ashland
Oakland Park
Salem
Cincinnati
Windsor
Hamilton
Mansfield
Elyria
Beverly
Freeport
Chillicothe
Pataskala
Uhrichsville
Zanesville
Fort Jennings
Burghill

Seraph, The	Deleware
Shapes & Surfaces	Youngstown
Shelby Novelty Co	Bay Village
Shelby Novelty Co	Shelby
Sherwood Forest Products Inc	Waverly
Shroyer, Paul Woodworking Corporation	New Carlisle
Shutter-Up Inc	Cuyahoga Falls
Siefker Sawmill	Delphos
Sign Up Of Ohio	Barberton
Signature Store Fixtures	Columbus
Silvesco Inc	Marietta
Singleton Reels & Trucking	Mantua
Skeen Wood Products	Wellington
Skillwood Products Inc	Akron
Smith Dodson Co	Columbus
Snyder, R G Cabinet Co	North Canton
Southway Fence Co	Canton
Southwest Industrial Millwork	Orrville
Southwood Lumber & Pallet Inc	Columbus
Speciality Services	Columbus
Stambaugh & Wise Cabinets	Columbus
Star Door & Sash Co Inc	Toledo
Star Lumber & Millwork Inc	Toledo
Steinke Cabinet Shop	Celina
Sterling Industries Inc	Ottawa
Stiers Counter Top Sales	Zanesville
Stigler Woodworks	Reading
Styer, K Alan Co	Greenford
Swisher Lumber Co	Shelby
Swiss Woodcraft Inc	Rittman
Sysack, Harry X Sign Co	Cleveland
T K Industries	Louisville
T-Truss Systems	Sardinia
Tarantino's Kitchens & Baths	Cleveland
Taylor Bros Architect Antiques	Dayton
Tempo Mfg Co Inc	Piqua
Thompson Lumber Co	Laurelville
Three S Pallet & Supply	Yorkshire
Thru The Grapevine	Bethel
Timber Products	Burton
Timmerman Construction Inc	Union City
Toledo Tarp Services Inc	Toledo
Tolson & Lawson Pallet Mfg	Gratis
Tomorrow's Heirlooms	Cincinnati
Topco Manufacturing Co	Port Clinton
Trailex Inc	Canifield
Trenz Group Inc	Montpelier
Tri-State Glass	East Liverpool
Tri-State Supply Company	Columbus
Trian Marblene Co	Cincinnati
Tropf Inc	Mentor
Troyer's Cabinet Shop	Belle Center
Tru-Built Wood Products Inc	Jamestown
Trumbull Pattern Works	Newton Falls
Trusco Inc	Middlefield
Truss Components	Edgerton
Truss-Worthy Inc	Palin City

Tubaugh, Harry Co
U S Marine Products Inc
Unit Sales & Services
United Garage Door
United Garage Door Co
United Millwork & Cabinet Co
United Pallet Association Inc
Valley Lumber Co Inc
Van Order Pallet Co Inc
Village Woodcrafters
Village Woodsmith
Virgil's Kitchens Inc
Volpe Millwork Inc
Vulcan Corp
W C P Wood Products
W M C Inc
Waddell Mfg Co
Wade's Woodworking Inc
Walbridge Woodworks
Wall Bed Systems Inc
Walnut Grove Construction
Waltz, Loren Cabinets
Warther, Ernest & Sons Inc
Wasem Packaging Service
Wauseon Woodworking Co
Waynedale Truss & Panel Co
Weber Cabinet Shop
Weber, R E Manufacturing
Wesson Garage Builders Inc
West Salem Hardwood Co
Western Furniture Corp
Whittaker's Custom Draperies
Wickliffe Cabinet Works
Wickliffe Industries Inc
Wickliffe Truss Co
Wilmington Forest Products Inc
Wilson Trophy Co
Winesburg Hardwood & Pallet Co
Winterich, John W & Associate Inc
Witt-Gor Inc
Wood Products Co
Wood Song
Wood Specialists
Wood Specialities
Wood Wizard
Wood Works For You
Woodcraft Manufacturing Co
Wooden Hen Manufacturing Ltd
Woodland Manufacturing
Woodshed Custom Carving
Woodwares of Amanda Inc
Woodworking Craftsman Inc
Woodworks
Woodworks of Zanesville
World of Wood
World Packaging Ltd
Wright Lumber Inc

Beallsville
Galion
Wauseon
Lorain
Cleveland
Cleveland
Lancaster
Laurelville
Swanton
Bloomville
Deleware
Lagrange
Cleveland
Blanchester
Washington Court House
Cincinnati
Stow
Dayton
Walbridge
Wapakoneta
Cincinnati
College Corner
Dover
Columbus
Wauseon
Apple Creek
Dayton
Middletown
Toledo
West Salem
Bedford
Columbus
Youngstown
Wickliffe
Perry
Wilmington
Cincinnati
Dundee
Cleveland
Columbus Grove
Toledo
Pataskala
Eastlake
Findlay
Grove City
Lorain
Pataskala
Lisbon
Columbus
Canton
Amanda
Euclid
Centerville
Zanesville
Amelia
Dayton
Williamsport

Wright Pattern Milling Service
Wurms Woodworking Co Inc
Yoder Cabinets
Yoder Pallets
Youngstown Curve Form Inc
Youngstown Shade & Alumunum Co
Youngstown Service Products Co
Zak Box Co Inc
Zanesville Fabricators Inc
Zoia Banquetuer Co Inc
Zuccaro Cabinets & Furn Frames

Cleveland
New Washington
Plain City
Palin City
Youngstown
Youngstown
Youngstown
Cleveland
Zanesville
Cleveland
Cleveland

**Directory of Large Secondary
Manufacturing Sector**

4 B Wood Specialities Inc
A C Design Inc
Accent Design Corp
Ace Lumber Co Inc
Acme Fence & Lumber Co
Action Lumber
Adam Wholesalers
Allen Box Co Inc
Allied Building Products Corp
Alumo Manufacturing Co
American Frame Corp
American Interior Design
American Wood Products Inc
American Woodwork Speciality Co
American Woodworking Shop Inc
Amtekco Industries Inc
Anderson Door Co
Anderson Pallet & Packaging
Ansonia Lumber Co
Archbold Furniture Co
Archbold Ladder Co
Art Woodworking & Manufacturing Co Inc
Artistic Finishes Inc
Artwood Products Inc
Atlas Dowel & Wood Products
August Inc
Automated Building Componets Inc
Automated Building Components
B & W Pallet & Lumber Co Inc
Baird Bros Sawmill Inc
Baker Lumber Inc
Baker Mc Millen Co
Baker Store Equipment Co
Bauer Corp
Bedford Cabinets
Benchmark Communities Inc
Benchmark Homes Inc
Berlin Fruit Box Co
Berlin Wood Products Inc
Best Panel Homes
Bohlke, M Veneer Corp
Bolle, Ted Millwork Inc

Seville
Columbus
Cleveland
Youngstown
Akron
Willard
Sharonville
Bergholz
Toledo
Youngstown
Maumee
Bedford Heights
Ashland
Dayton
Cleveland
Columbus
Cleveland
Lewisburg
Ansonia
Archbold
Archbold
Cincinnati
Willoughby
Millersburg
Cincinnati
Centerville
North Baltimore
Dayton
Attica
Canfield
Columbus
Stow
Cleveland
Wooster
Oakwood
Brookville
Brookville
Berlin Heights
Berlin
Hamilton
Fairfield
Springfield

Brown-Graves Co
 Bruewer Woodwork Mfg Co Inc
 Buckeye Barnes Inc
 Buckeye Wood Products Inc
 Built Rite Box & Crate Inc
 Bullock Co Inc
 Caldwell Lumber Co Inc
 Canal Dover Furniture Co
 Canfield Forest Products Inc
 Cap & Associates Inc
 Cap's Newton Lumber Co
 Carl Manufacturing Co
 Carter Lumer
 Cedar Works Inc
 Century Products Co
 Century Window
 Chappell Door Co
 Cincinnati Dowel & Wood Products
 Cincinnati Dowel & Wood Products
 Cleveland Wood Products
 Clopay Corp/Garage Door Division
 Coblenz Bros Inc
 Colonial Stair & Woodwork Co
 Columbus Showcase Co Inc
 Columbus Tops & Case Goods
 Commercial Interior Products Inc
 Contemporary Cabinetry East
 Conway Lumber Co Inc
 Cor Tec Co
 Creative Cabinet Systems Inc
 Crook Miller Co
 Croy-Marietta Hardwoods Inc
 Curry, D C Lumber Co Inc
 Dayton Industrial Wood Inc
 Dayton Show Case Co
 De Noon, Bill Lumber Co
 Designer Showcases Inc
 Dimension Veneers Inc
 Doors Inc
 Dublin Millwork Co
 Echo Point Hardwoods Inc
 Elston Lumber Co Inc
 Falcon Fabricators Inc
 Falls Lumber & Millwork Co Inc
 Ficks Reed Co
 Fiest Hardwoods Inc
 Fifth Avenue Lumber Co
 Firelands Kitchen Co
 Fleetwood Custom Counter Tops
 Flick Packaging Co Inc
 Forest Products Group Inc
 Franke's Wood Products Inc
 Freeley Inc
 G R H Forrest Products
 Gasser Chair Co Inc
 Gerstner, H & Sons Inc
 Ghent Mfg Inc

Akron
 Cleves
 Dalton
 South Charleston
 Wooster
 Springfield
 Caldwell
 Midvale
 Canton
 Whitehall
 Newton Falls
 Lisbon
 Kent
 Peebles
 Macedonia
 Mount Vernon
 Washington Court House
 Mount Orab
 Milford
 Cleveland
 Russia
 Apple Creek
 Jeffersonville
 Columbus
 Columbus
 Fairfield
 Loveland
 McArthur
 Washington Court House
 Aarcanum
 Hicksville
 Marietta
 Wooster
 Dayton
 Dayton
 Bergholz
 Cleveland
 Edon
 Wadsworth
 Amlin
 Port Washington
 Marietta
 Batavia
 Akron
 Cincinnati
 Newton Falls
 Columbus
 Huron
 Westerville
 Galion
 Piqua
 Marysville
 Cleveland
 Berlin
 Youngstown
 Dayton
 Greenfield

Gibbs Co
Gilbert Lumber Ci
Glandon Lumber Co
Gordon Lumber Co
Grand River Hardwood Co Inc
Groovfold Inc
Gross & Sons Millwork
Gross Lumber Inc
Gunton Pella Corp
Hass Door Co
Halliday Lumber Inc
Hamilton Contract Interiors
Hampshire Co
Hardwood Flooring & Paneling
Hartzell Industries Inc
Harvard Mfg Co
Hattenbah Co
Hawkins, H F & Sons Co Inc
Heartland Insustries Inc
Hiland Wood Products Inc
Hoge Lumber Co
Holmes Lumber & Building Center
Huck's Cabinets
Hyde Park Lumber Co
Ideal Custom Millwork Inc
Inca Presswood Pallets Ltd
Industrial Dimensions Inc
Inland Wood Products Corp
Insta-Plak Inc
Interior Options Inc
Iron City Sash & Door Co
J & L Wood Products
Jarrett Inc
K & B Products
Kalinich Fence Co
Kellogg cabinets Inc
Kenmack Lumber
Kraftmaid Cabinetry Inc
Kyle Pallet & Container Co Inc
Laminated Wood Products Inc
Lauber Manufacturing Co
Lenkei Bros Custom Cabinet Co
Litco International Inc
Litco Wood Products Co
Logangate Homes Inc
Longaberger Baskets
Longaberger Co
Lousiana-Pacific Corp
Ludy Greenhouse Manufacturing Corp
M I I-Kiechler Div
Maclean, J S Co
MagiCool
Mahoney Sash & Door Co
Malta Windows & Doors
Mar Lite
Marsh Chalkboard Co
Marsh Lumber Co Inc

Canton
Smithville
McArthur
Oak Harbor
Chardon
Newcomerstown
Lima
Apple Creek
Bedford Heights
Perrysburg
Washington Court House
Monroe
Piqua
Burton
Piqua
Bedford Heights
Cleveland
Brookville
Wadsworth
Walnut Creek
New Knoxville
Millersburg
Marietta
Cincinnati
Clayton
Dover
Fostoria
Marietta
Toledo
Solon
Massillon
Tipp City
East Palestine
Galion
Strongsville
Canal Winchester
Newport
Middlefield
Negley
La Rue
Archbold
Mount Vernon
Vienna
Apple Creek
Youngstown
Hartville
Dresden
Ottawa
New Madison
Harrison
Lincoln Village
Sandusky
Canton
Malta
Dover
Dover
Dover

Martin Pallet Inc	Massillon
Mc Intire Basket Co Inc	Creston
Mc Mullen Cabinet Co	Hamilton
Mercer, Paul Sawmill Inc	McArthur
Merillat Industries Inc	Loudonville
Merillat Industries Inc	Jackson
Mersman Furniture	Celina
Mid-Ohio Wood Products Inc	Heath
Midwest Woodworking Co Inc	Norwood
Mill's Pride Inc	Waverly
Miller Cabinet Co	Plain City
Miller, J Furniture Industries Inc	Enon
Mobile Home Estates Inc	Bryan
Mock Woodworking Co	Zanesville
Modern Store Fixture Co	Sebring
Mohler Lumber Co Inc	North Canton
Morgans Do It Center	Warren
Morton Building Inc	Kenton
Mr O's Cabinet Shop Inc	North Canton
Mullet Cabinet Inc	Millersburg
Nagele Manufacturing Co	Brook Park
National Door & trim Inc	Van Wert
Neo-Wood Products	Alvada
Neo-Wood Products	Tiffin
Northwood Lumber Inc	Orrville
Norwalk Furniture Corp	Norwalk
Norwood Sash & Door Manufacturing Co	Norwood
O S F America	Hilliard
Oak Leaf Wood	Hillsboro
Ohio Pallet co	Pomeroy
Ohio Penal Industries	Lima
Ohio Speciality Manufacturing Co Inc	Toledo
Ohio Valley Truss Co	Hillsboro
Omega Garage Door Co	Boardman
Ort Furniture Manufacturing Co	Salem
P K Packaging Co	Celina
Palm Harbor Homes of Ohio	Sabina
Parsons Floors & Cabinet Co	Columbus
Pilliod Cabinet Co	Swanton
Plaza Lumber Co Inc	Youngstown
Plycraft Fabricating Corp	Conneaut
Powell Structural Systems	Powell
Precision Wood Products	Camden
Premier Construction Co Inc	Fairfield
Progressive Furniture	Swanton
Progressive Technology Inc	Lebanon
R C S Industries Inc	Jefferson
Randall Homes Corp	Piketon
Redibilt Building Systems	Independence
Requarth, F A Co	Dayton
Reserve Millwork	Cleveland
Riceland Cabinet Inc	Orrville
Riviera Cabinets Inc	Lancaster
Riviera Cabinets Inc	Lancaster
Roettger Harwood Inc	Kettlersville
Rowe & Giles Millwork Inc	Chargin Falls
Ryland Building Systems	Harrison

Sandvik Rock Tools	Mentor
Sauder Woodworking Co	Archbold
Sawmiller Inc	Haydenville
Schneider Lumber Co	Canton
Schott Lumber Co Inc	Caldwell
Schrocks' Woodcrafts Inc	Walnut Creek
Schumacher, F E Co	Hartville
Scio Laminated Products Inc	Scio
Sebring Forest Industries Inc	Sebring
Semac Industries Inc	Millersburg
Seneca Millwork inc	Fostoria
Sharp, A G Lumber Co	Girard
Skyline Corp	Sugarcreek
Smith, L E Co	Bryan
Smokey Inc/Centerville Division	Dayton
Spring Wood Products Inc	Geneva
Stark Truss Co Inc	Warren
Stark Truss Inc	Washington Court House
Stark Truss Inc	Canton
Stark Truss Inc	Canton
Stark Truss Inc	New Philadelphia
Stark Truss Inc	Edgerton
Stearns & Foster Upholstery	Columbiana
Sterling Industries Inc	Ottawa
Stewart Cabinet Sls	Wadsworth
Stony Point Lumber Co	Sugarcreek
Store Engrg Co	Youngstown
Strait & Lamp Lumber Co	Hebron
Style-Mark Inc	Archbold
Suhr Custom Kitchens	Norwalk
Superior Hardwoods of Ohio	Wellston
Supply One	Dayton
T & D Thompson Inc	Laurelville
Taylor Chair Co	Bedford
Taylor Woodcraft	Malta
Tectum Inc	Newark
Terra Quest Homes inc	North Ridgeville
Tibbet Inc	Toledo
Timberline Products Inc	Sugarcreek
Todco	Marion
Toledo Store Fixtures Inc	Perrysburg
Triad Door	North Lima
Troy Mill Manufacturing Inc	Middlefield
Tru-Space	Bowling Green
Trus Joist Corp	Delaware
Trusco Inc	Doylestown
Unibilt Industries Inc	Vandalia
Union Fork & Hoe Co	Delaware
United Garage & Door Co	Cleveland
Universal Cork Inc	Maple Heights
Wadsworth Sash & Door Co	Wadsworth
Wappoo Wood Products Inc	Sidney
Wayne Dalton Corp	Mount Hope
Wayne Lumber Co Inc	Toledo
Weathersfield Products Inc	Columbus
Web Truss Co	Plain City
Wenco Of Ohio	Mount Vernon

Western Home Center Inc
Western Home Center Inc
Whitling Lumber & Millwork Co
Wickes lumber #212
Wilco Inc
Willaims Pallet Repair Inc
Willis Lumber Co Inc
Wilson Cabinet co
Wittrock Woodworking Manufacturing
Wood Dimensions Inc
Wood Pro Inc
Wood-Made Cabinets Inc
Woodcor America Inc
Workshops if David T Smith
Yoder Lumber Co
Yoder Lumber Co
Woodco Corp

Cincinnati
Mason
Cincinnati
Mansfield
Spring Valley
West Chester
Washington Court House
Killbuck
Cincinnati
Cleveland
Barberton
Medina
Columbus
Morrow
Millersburg
Sugarcreek
Elida

F. Pennsylvania/Colorado Renewable Energy Initiatives

PENNSYLVANIA GOVERNOR PROPOSES INCREASED RENEWABLES SPENDING - AWEA [American Wind Energy Association] Wind Energy Weekly Feb. 6, 2004

On February 3, Pennsylvania Governor Edward G. Rendell proposed increased funding for renewable energy projects in the 2004-05 budget and called for an "Advanced Energy Portfolio Standard" to ensure that 10% of all of the energy generated in the Commonwealth will come from clean, efficient sources in 10 years.

"The Governor's bold vision will create excitement about Pennsylvania as an innovative, cutting-edge place to do business," state Environmental Protection Secretary Kathleen A. McGinty said. "Attracting new investment in energy technology will help to create the jobs we need while ensuring the highest standards of environmental protection with energy sources that are proven to improve air quality, preserve land, protect local watersheds, create jobs, and enhance energy security."

With just \$5 million in funding in its first year last year, the program known as Pennsylvania Energy Harvest received 139 applications with requests for \$45 million in funding that would generate \$96 million in private investment. Building on the position of having already doubled the amount of "green" energy that Pennsylvania uses, the Governor has directed agencies to redouble that effort again so that fully 20% of the state's energy needs are met by clean energy technologies. The Pennsylvania Energy Development Authority will provide financing to a wide range of energy research, development, and demonstration projects to develop, promote, and more efficiently use alternative energy resources indigenous to the state.

In addition to promoting coal gasification, researching reserves of coal gas methane, and building biodigesters on farms, the Governor said the state is looking to enhance its reputation as the leader on the East Coast in wind energy. Pennsylvania wind farms are already producing 129 MW of electricity here and another 49 MW are scheduled to go online within the next year.

"With rising imported fuel prices and recent record-high oil and natural gas prices, opportunities abound to explore new energy technologies that only a few years ago might not have been cost-competitive," Secretary McGinty said. "Pennsylvania exports more than \$20 billion a year to import energy fuels—that's nearly as much as our entire state budget. Yet, indigenous energy development has a multiplier effect in the economy that may generate as much as 1.6 times more revenue than from imports. Keeping energy dollars in state clearly is the first step in retaining and generating more jobs in Pennsylvania."

The Governor also proposed plans to clean and redevelop brownfields, cleaning the state's waterways, and assist recycling programs.

Energy study sees savings

Renewable sources pushed in House-passed Colo. bill

By Steve Raabe
Denver Post Business Writer

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A legislative mandate for renewable power generation could save consumers money, not cost them, according to a new study released Thursday.

Although the savings would be modest - up to 31 cents a month on a typical residential bill - renewable-energy backers say the study should alleviate fears that wind energy might be more expensive than conventional power.

A bill in the Colorado legislature would require the state's two investor-owned utilities, Xcel Energy and Aquila Inc., to obtain 15 percent of their power from renewable resources by 2020, including wind, solar, small hydroelectric and biofuels such as wood and crop waste.

House Bill 1273, sponsored by Speaker Lola Spradley, R-Beulah, passed in the House this week by a 39-26 vote. It is awaiting action in the Senate.

Previous legislative attempts to pass a renewable-energy mandate died amid concerns over the cost and the impact on customer bills.

Stan Lewandowski of the Intermountain Rural Electric Association, a critic of the renewables bill, said he remains concerned that costs would rise and power reliability would suffer with more wind generation.

He said utilities should determine how much renewable power can be economically and efficiently produced without a government mandate. In the new study, utility analyst Ron Binz of Denver calculated that wind power would be cheaper than electricity generated from natural gas.

Natural gas-fired plants account for most of the new generation built in Colorado during the past decade.

Binz, former director of the Colorado Office of Consumer Counsel, said wind power is competitive at current natural gas prices and would become more attractive under forecasts for even higher gas prices over the next 20 years.

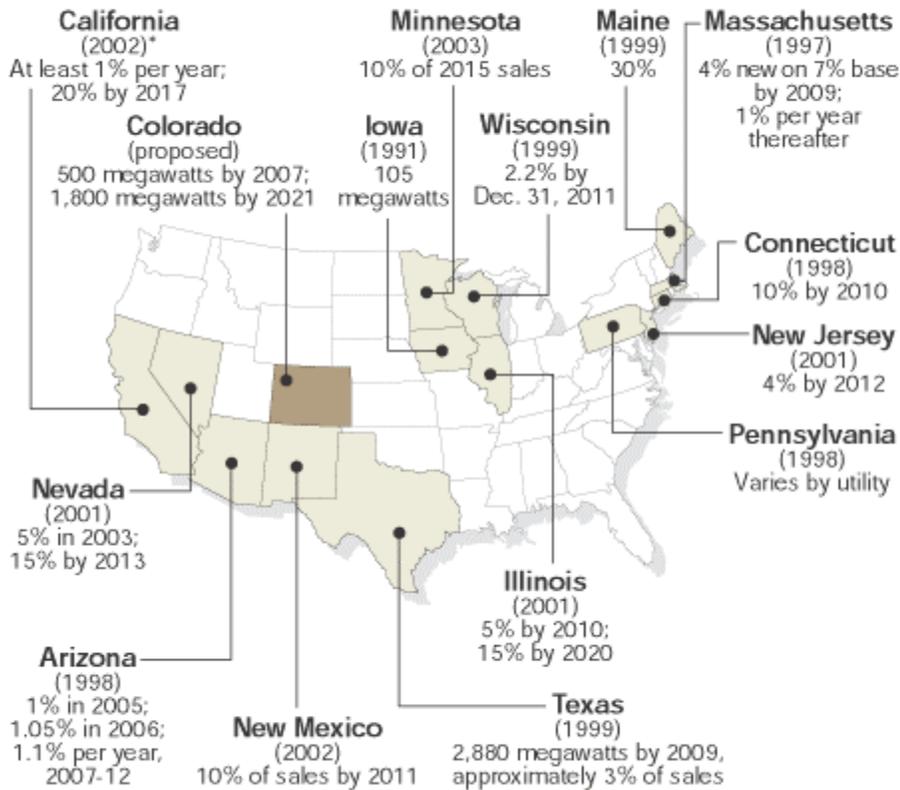
Binz's 39-page study was commissioned by a Colorado coalition of environmental and renewable-energy groups, and funded by a \$10,000 grant from the Energy Foundation, a San Francisco-based group advocating sustainable energy.

Among the study's findings:

- Assuming continued strong price increases for natural gas, consumers would save 20 to 31 cents a month under a mandatory renewables bill.
- The savings could increase up to 75 cents a month when gas prices spike, as they did in 2000 and 2003.
- If gas prices don't rise as high as some forecasts, consumers would pay 8 cents more a month under the renewable mandate.
- Renewable generation would lessen water consumption and air pollution, and it would help rural economic growth where wind turbines are built.

Energy mandates in 14 states

A bill requiring renewable-energy generation is in the Colorado legislature. Supporters say it will lower utility bills. Fourteen other states have passed renewable-power mandates.



* Year mandate was adopted

Source: Union of Concerned Scientists

The Denver Post