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**THE NATIONAL ASSOCIATION OF RESOURCE
CONSERVATION & DEVELOPMENT COUNCILS**

BIOMASS FACT SHEET

WWW Internet Directory for Biomass Applications Across the United States

The following directory is a cursory look at the many websites that contain information on the utilization of Biomass across the United States. This directory is not intended to be a complete listing of Biomass websites, but is designed to give the reader an overview of the many resources, which can be found on the World Wide Web. In addition, this directory refers you to other web sites maintained by third parties over whom NARC&DC has no control. NARC&DC makes no representations as to the accuracy or any other aspect of information contained in other Web Sites.

GENERAL BIOMASS WEBSITES

The Alliance to Save Energy – The Alliance to Save Energy promotes energy efficiency worldwide to achieve a healthier economy, a cleaner environment, and greater energy security. The site contains lesson plans on energy efficiency a Home Energy Checkup, and information on biomass resources, which consumers can utilize. <http://www.asc.org/>

American Biomass Association – This website provides useful information on the biomass energy industry, the need for expanded production of power, and the issues dealing with the transportation of fuels and chemicals from biomass. This website also includes a primer on what is biomass, how it is used, and why use bioenergy. <http://www.biomass.org/>

American Coalition for Ethanol - A non-profit membership association devoted to promoting the increased production and use of ethanol. <http://www.ethanol.org/>

American Council for an Energy-Efficient Economy – The American Council for an Energy-Efficient Economy is a nonprofit organization dedicated to advancing energy efficiency as a means of promoting both economic prosperity and environmental protection. ACEEE fulfills its mission by: Conducting in-depth technical and policy assessments, Advising policymakers and program managers, Working collaboratively with businesses, public interest groups, and other organizations, Organizing conferences and workshops, Publishing books, conference proceedings, and reports, Educating consumers and businesses. <http://www.aceee.org/about/about.htm>

The American Council on Renewable Energy – The American Council on Renewable Energy (ACORE) is a 501(c)(3), non-profit organization in Washington, D.C. is focused on accelerating the adoption of renewable energy technologies into the mainstream of American society. ACORE promotes all renewable energy options for the production of electricity, hydrogen, fuels and end-use energy including: Solar, Wind, Geothermal, Hydro/Ocean, Biomass/Biofuels, and Waste and Energy Fuels. <http://www.acore.org/index.php>

American Methanol Institute - A non-profit educational and scientific organization dedicated to supporting the greater use of methanol as a clean energy resource. <http://www.methanol.org/>

Biobased Products & Bioenergy Initiative – The Biomass Initiative is the multi-agency effort to coordinate and accelerate all Federal biobased products and bioenergy research and development. <http://www.bioproducts-bioenergy.gov/default.asp>

Bioenergy Information Network – This website is hosted by the Oak Ridge National Laboratory and provides information of biomass feedstock research, biochemical engineering research, as well as, current information out of the U.S. Departments of Energy and Agriculture. The website features information on the research and analyses of liquid and gaseous fuels produced from dedicated energy crops such as grasses and fast-growing short-rotation trees. The projects focus on the domestic production, recovery, and conversion of these feedstocks to economically priced, environmentally beneficial fuels such as ethanol, methanol and biodiesel. <http://bioenergy.ornl.gov/>

Biofuels Feedstock Development Program (BFDP) – This website provides a mission-oriented program of research and analysis whose goal is to develop and demonstrate environmentally acceptable crops and cropping systems for producing large quantities of low-cost, high-quality biomass feedstocks. The website also contains the ORNL's Integrated Analysis of biomass feedstocks provides consistent and documented data on biomass resources to DOE and a wide range of potential stakeholders in a large-scale biorefinery industry. <http://bioenergy.ornl.gov/bfdpmain.html>

Biofuels Information Center – This website is operated by the National Renewable Energy Laboratory with funding and direction from the Biofuels Systems Division within the Office of Transportation Technologies at the U.S. Department of Energy (DOE). The center maintains technical information on biofuels conversion research conducted under U.S. DOE supervision from 1980 to the present. The center is linked to the Biofuels Information Network, located at the Oak Ridge National Laboratory, where information can be obtained about the DOE Biofuels Feedstock Development Program. <http://www.eere.energy.gov/biomass/>

Biomass Energy Research Association - The site provides, "An Introduction to Biomass Energy - A Renewable Resources", by Donald L. Klass. It includes biomass concepts, technologies, biomass energy markets, environmental impacts, economic impacts, and barriers to entry and information sources. <http://www.beral.org/about.html>

British BioGen – British BioGen is the Trade Association for the UK's bioenergy industry. Their mission is to "*promote and co-ordinate the commercial development of biomass as a renewable fuel resource for energy production*". Information can be found on their website relating to biomass including energy crops, such as short rotation coppice and miscanthus, agricultural by-products (both wet and dry), energy forestry produce and forestry residues. <http://www.britishbiogen.co.uk/>

California Biomass Energy Alliance – This website is an association representing 37 biomass-fueled power plants in California. CBEA members are the plant owners and operators whose fuels come from the forestry, agricultural, and urban wood waste sectors. Collectively, the 25 member companies represent approximately 700MW of generating capacity. The website contains information on biomass from forestry and agriculture, as well as, other links to useful biomass websites. <http://www.calbiomass.org/>

The California Energy Commission – This site provides general information and links to consumers about the various issues surrounding energy use and conservation. <http://www.energy.ca.gov/>

Canadian Renewable Fuels Association – This website provides information on Ethanol fuels, ethanol from wastes, and biodiesel. In addition, the site provides information on how ethanol, new cellulose ethanol and bio-diesel can help you ride renewable - saving money and the environment. <http://www.greenfuels.org/>

The Clean Energy States Alliance - The Clean Energy States Alliance (CESA) is a 501 (c)(3) non-profit organization created by 17 publicly managed clean energy funds from twelve states. In an unprecedented national collaboration, these organizations have banded together to expand the use of clean energy across the country by supporting solar, wind, fuel cells and other clean energy projects and companies. <http://www.cleanenergystates.org/index.html>

The Clean Fuels Development Coalition - The Clean Fuels Development Coalition (CFDC) is an innovative not-for-profit organization that actively supports the development and production of fuels that can reduce air pollution and lessen our dependence on imported oil. For more than a decade, CFDC has been combining the efforts of a variety of interests and played a crucial leadership role in the development of a national energy strategy, passage of clean fuel legislation and regulations, and the fostering of new fuel technologies and manufacturing processes. <http://www.cleanfuelsdc.org/index.html>

Electric Power Research Institute (EPRI) – Provides information on electricity and environmental research. The EPRI's website provides information on many aspect of power generation, delivery and end-use. <http://www.epri.com/>

Environmental Media Services – Bioenergy fact page provides information about the potential of bioenergy to help or harm the environment. Facts and links. <http://www.ems.org/biomass/intro.html>

Food and Agricultural Organization of the United Nations – This website provides information on the promotion of sustainable wood energy systems globally. Site has information on fuels derived from forest products and issues associated with forest energy. <http://www.fao.org/forestry/foris/webview/energy/index.jsp?siteId=3281&siteTreeId=9827&langId=1&geoId=0>

Governor's Ethanol Coalition - Goal to increase the use of ethanol based fuels, to decrease the America's dependence on imported energy resources, improve the environment and stimulate the national economy. <http://www.ethanol-gec.org/>

Maui Green Energy - Advocacy group promoting biodiesel and other renewable energy resources. Includes information on the technology and its uses. <http://www.mauienergy.org/>

Michigan Biomass Energy Program - The site provides a definition of biomass energy and links to other biomass energy information such as biomass energy resources, energy conversion and uses. http://www.michigan.gov/cis/0,1607,7-154-25676_25753---.00.html

Mississippi Alternative Energy Enterprise – The Mississippi Alternative Energy Enterprise's mission is to coordinate the efforts of industry, research universities, and government into a cohesive energy strategy for the state that will assess the applicability of existing alternative energy technologies, and to apply these technologies to Mississippi's resources. The Enterprise is administered by the Mississippi Technology Alliance, a private, nonprofit company that champions science and technology-based economic development for the State of Mississippi. The Goal of the Enterprise is an alternative for reduced dependence, NOT a goal of total independence from traditional energy suppliers. Their main objectives are to: Develop an Alternative Energy Strategic Agenda for the State of Mississippi; Provide direction on regulatory, policy, and community initiatives required to implement that agenda; Assess existing alternative energy technologies, and Apply these technologies to benefit communities and individuals in Mississippi; and Create key working relationships with the various stakeholders in alternative energy, including universities, industries, communities, federal, state and local governments. <http://www.msenergy.ms/>

National Biodiesel Board - The National Biodiesel Board (NBB) is the national trade association representing the biodiesel industry as the coordinating body for research and

development in the US. It was founded in 1992 by state soybean commodity groups, who were funding biodiesel research and development programs. Since that time, the NBB has developed into a comprehensive industry association, which coordinates and interacts with a broad range of cooperators including industry, government, and academia. NBB's membership is comprised of state, national, and international feedstock and feedstock processor organizations, biodiesel suppliers, fuel marketers and distributors, and technology providers. <http://www.biodiesel.org/>

National Conference of State Legislatures – Provides information on the use of alternative fuels within the United States. The Website discusses how states assess the effectiveness of their transportation and energy programs, how they will need high quality information on the relationship between air quality, fuel diversity and transportation goals. The site also has many useful links on alternative fuels. <http://www.ncsl.org/programs/energy/ALTFUEL.htm>

New Uses Council – The New Uses Council is a nonprofit membership organization, which provides information on the development and commercialization of biobased products. It provides information made from traditional and new agricultural and forestry crops and residues; rights-of-way, park, yard and garden trimmings; the clean biomass portion of municipal wastes; and, when needed, aquatic biomass grown in an environmentally enhancing manner. <http://newuses.org/>

Renewable Energy Policy Project - This site features an interactive Renewable Energy Education Module on Biomass. It includes an overview, theory, applications, case studies, environment related issues and economics. The module is suitable for secondary through high school levels. <http://solstice.crest.org/>

Renewable Fuels Association - A national trade association for the domestic ethanol industry. Provides information about federal policies concerning alcohol fuels to consumers, blenders, marketers, and technicians. "Ethanol Report," a bi-monthly newsletter, is available free with membership. <http://www.ethanolrfa.org/>

The Short Rotation Woody Crops Operations Working Group – The Short Rotation Woody Crops Operation Working Group is a private and public partnership between wood products companies, equipment manufacturers, utility companies, the U.S. Forest Service, the U.S. Department of Energy's Oak Ridge National Laboratory (ORNL), the National Council of the Paper Industry for Air and Stream Improvement (NCASI) and university researchers. Our mission is to promote collaborative efforts in developing needed operations for plantings that comply with the principles of economic viability, ecological soundness, and social acceptance. A major activity is information sharing about the efficient development of practices and equipment to culture, harvest and handle large-scale woody biomass plantings. <http://www.woodycrops.org/>

Southern Alliance for the Utilization of Biomass Resources – The Southern Alliance for the Utilization of Biomass Resources (SAUBER) mission is to create an industry to use the renewable biomass resources in the South to enhance energy security, provide a

cleaner environment, help revitalize the South's rural economies, maintain healthy forests, and sustain forests and farms. Biomass, which includes standing trees, logging residues, farm crops and residues, and animal wastes are plentiful in the South and will replace some of the fossil fuels now being used for the production of energy and chemicals. <http://saubr.ua.edu/>

Sustainable Energy Development Authority-Australia - The site provides information on biomass energy, how is it used, and the benefits, potentials and barriers to using biomass energy. http://www.seda.nsw.gov.au/ren_biomass.asp

Union of Concerned Scientists – provides information on clean energy and the use of biomass. <http://www.ucsusa.org/>

The University of Wisconsin Forest Products Laboratory – The BioEnergy Home Page (<http://calvin.biotech.wisc.edu/jeffries/>) provides resources on bioenergy, bioconversion, and bioprocess technology.

Veggie Power – This website is designed to provide the user with information on the creation of biodiesel. <http://www.veggiepower.org.uk/>

REGIONAL BIOMASS PROGRAMS

Great Lakes Regional Biomass Energy Program - The Council of Great Lakes Governors has administered the Great Lakes Biomass State-Regional Partnership (GLBSRP) under contract with the U.S. Department of Energy (DOE) since 1983. This is one of five regional programs established by DOE and designed to encourage greater production and use of biomass for energy generation. Biomass includes wood, crop residues, municipal waste, and other organic materials and can be converted for power production and transportation fuels including ethanol and biodiesel. <http://www.cglg.org/biomass/index.html>

Northeast Regional Biomass Program - The Northeast Regional Biomass Program (NRBP) is one of five Regional Biomass Energy Programs established and funded by the U.S. Department of Energy (DOE). The program's mission is to evaluate biomass technologies and fuels and to provide objective, reliable information to consumers and policy leaders. The NRBP carries out its mission through an extensive network of local, state, and national government organizations, and partnerships with private industry. Biomass in the context of this program is defined as renewable organic materials including: forestry and agricultural crops and residues; wood and food processing wastes; and municipal solid waste (MSW). <http://www.nrbp.org/whoweare.htm>

Pacific Regional Biomass Energy Program - The Pacific Regional Biomass Energy Partnership is a regional effort that encourages the development of bioenergy in Alaska, Hawaii, Idaho, Montana, Oregon and Washington. It is supported by the U.S. Department of Energy and state energy offices. <http://www.pacificbiomass.org/>

Southeastern Regional Biomass Energy Program – the SERBER provides information on biomass energy by encouraging economic development through public/private partnerships that demonstrate bioenergy technology applications. The objectives of SERBEP are: To improve government and industry capabilities and effectiveness in the production and use of biomass resources, To support planning efforts that make these resources available, To encourage economic development through private and public investment in biomass technologies, and To engage in research projects that demonstrate biomass technology applications. <http://www.serbep.org/>

Western Regional Biomass Energy Program – This website provides information on the production and use of biomass energy resources for economic development and environmental sustainability. The program has a special emphasis on small municipalities and rural communities. The website focuses in on the following areas: Confined animals, dairies, poultry, and feedlots; Food wastes, cheese & other food processing waste; Conversion of cellulose to ethanol; cellulase; & increasing the value of ethanol by-products and co-products; Environmental externalities and/or non-energy benefits; Forest thinnings-to-energy; Improvements in economics and/or efficiencies; Utility deregulation and/or green power; Biodiesel from waste oils and other waste materials; Municipal solid waste-to-energy; Small power, distributed generation, gasification and related technologies; and Assessments of available sugar or starch waste streams from sugar production, sugar products and soft drinks, fruit and fruit products, brewing, and pharmaceuticals. <http://www.westbioenergy.org/>

FEDERAL AGENCIES

Department of Energy:

The ABC's of biofuels –This site offers a primer on the who, what, and how of biofuels. http://www.eere.energy.gov/biomass/abcs_biofuels.html

Alternative Fuels Data Center is a vast collection of information on alternative fuels and the vehicles that use them. <http://www.eere.energy.gov/afdc/index.html>.

Center of Excellence for Sustainable Development a project of the U.S. DOE, which provides information on sustainable development. <http://www.sustainable.doe.gov/>

Energy Efficiency and Renewable Energy Project – This site provides a list of publications and fact sheets on biopower from the U.S. Department of Energy. Topics include: cofiring biomass with coal or natural gas, biomass power for rural development projects, energy crops, gasification, and program-related documents. <http://www.eere.energy.gov/RE/bioenergy.html>

Energy Information Administration - Provides comprehensive energy data by sector, price, fuel or geography. <http://www.eia.doe.gov/>

Green Power Network - This site features news on green power markets and utility green pricing programs—both domestic and international.
<http://www.eere.energy.gov/greenpower/>

National Renewable Energy Laboratory –The National Renewable Energy Laboratory (NREL) is a leader in the U.S. Department of Energy's effort to secure an energy future for the nation that is environmentally and economically sustainable. <http://www.nrel.gov/about.html>

Pacific Northwest National Laboratory's (PNNL) Bio-Based Product Research Center – This facility owned by the DOE provides information on the application of novel thermal, chemical, and biological processes to convert biomass to industrial and consumer products, fuels, and energy.
<http://www.pnl.gov/biobased/>

U.S. Department of Agriculture:

Agricultural Research Service Biofuels Program – A program out of the U.S. Department of Agriculture, which conducts research on making biofuels from crops and agricultural raw materials. <http://www.nal.usda.gov/ttic/biofuels.htm>

USDA Biobased Products and Bioenergy Coordination Council (BBCC) - The Biobased Products and Bioenergy Coordination Council (BBCC) was established by the Secretary of Agriculture to provide a forum through which USDA agencies will coordinate, facilitate and promote research, development, transfer of technology, commercialization, and marketing of biobased products and Bioenergy using renewable domestic agricultural and forestry materials. This includes promoting information sharing, strategic planning and providing policy advice to the Secretary. <http://www.ars.usda.gov/bbcc/>

Farm Service Agency's Bioenergy Program - A program out of the U.S. Department of Agriculture, which provides information on using agricultural commodities in the production of bioethanol and biodiesel fuels.
http://www.fsa.usda.gov/daco/bio_daco.htm The National Association of State Energy Officials – This site provides links to each state's energy office.
<http://www.naseo.org/>

National Agroforestry Center – A program of the U.S. Department of Agriculture, which provides information on Agroforestry in the United States. The site combines agriculture and forestry technologies to create more integrated, diverse, productive, profitable, healthy and sustainable land-use systems, which can benefit biomass utilization. <http://www.unl.edu/nac/>

The Renewable Energy and Energy Efficiency Program – This is a program under the USDA Rural Development Grant Program [Section 9006](#) of the Farm Bill.

The program provides grants administered by Rural Development's Business Program. <http://www.rurdev.usda.gov/rd/farmbill/9006resources.html>

Value-Added Agricultural Product Market Development Grants Program – A program of the U.S. Department of Agriculture authorized by the Agriculture Risk Protection Act of 2000 and was amended by the Farm Security and Rural Investment Act of 2002, better known as the 2002 Farm Bill. Grants may be used for planning activities and working capital for marketing value-added agricultural products and for farm-based renewable energy. Eligible applicants are independent producers, farmer and rancher cooperatives, agricultural producer groups, and majority-controlled producer-based business ventures. <http://www.rurdev.usda.gov/rbs/coops/vadg.htm>

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Notes