



## FY 2012 Funding for the U.S. DEPARTMENT OF ENERGY ENERGY EFFICIENCY AND RENEWABLE ENERGY - BIOMASS PROGRAM - April 2011

**Position:** The Council for Chemical Research (CCR) supports a FY 2012 budget of \$340 million for the Office of Energy's Efficiency and Renewable Energy Biomass Program (a 57% increase over FY10 appropriations). Further, CCR requests a balanced approach that supports near, mid, and long-term projects in both biofuels and bio-based products.

**Who We Are:** CCR is a non-profit organization dedicated to advancing multi-sector, multi-disciplinary research in the chemical sciences and engineering. Its member organizations – companies, universities and government laboratories – are represented in CCR by their research leaders.

We strongly urge the important components of funding for physical sciences research be maintained. Our studies (<http://www.ccrhq.org/publications>) and those of others demonstrate that Federal investments in chemical science research yield significant payback for the US economy. **Every dollar of Federal investment is leveraged by \$5 of private investment; this investment generates \$10 of operating income for industry (a 17% annual after tax return), the economy gains roughly \$40 in GDP and \$8 in increased tax revenues. A highly regarded CCR study showed that for 2001 the overall \$1B Federal investment in chemical R&D will create 600,000 new jobs over the following 20 year period.**

### Rationale

The mission of the Department of Energy's Office of the Biomass Program within the Office of Energy Efficiency and Renewable Energy is to partner with U.S. industry to foster research and development on advanced technologies that will transform our abundant domestic biomass resources into clean and affordable biofuels, high-value bioproducts and biopower. CCR believes funding of this effort is vital to our nation.

- **New bio-based technologies will create new jobs.** Developing new biofuel and biofeedstock technologies will create new businesses, create jobs, and strengthen the US economy.
- **Employing our indigenous biomass supplies** to produce chemicals, fuels, and power for commerce addresses some of current and future needs in reducing our dependence on foreign oil, fostering rural economic development, eliminating waste streams and in building a sustainable economy.
- **Economic growth will come from multi-disciplinary collaborative programs** that link agricultural and forest products research in industry, academe and government laboratories to develop bio-based products with chemicals and petroleum-processing technologies.
- **The Biomass Program includes major programs for new or improved technology** for the integrated biorefinery concept through R&D investments in feedstock infrastructure; platform development for producing cheap sugars and in thermochemical processing; and utilization of the platform outputs for making biofuels biomass power, and plastics and chemicals from bio-based feedstocks.
- **The Biomass Program of DOE and the USDA lead the multi-agency Biomass Research and Development Initiative**, working to coordinate and accelerate all federal bio-based products and bioenergy research and development in accordance with the Energy Independence Security Act of 2007. Many chemical enterprise partners have been selected through the competitive program that foster valuable interaction between industry, academia, and government laboratories.
- **This program provides stability to an industry that creates jobs and a positive trade balance.** In light of increasing international competition, the US must leverage its assets to remain economically viable.