



Profitable Use of Biomass at Ethanol Plants: Public Policy Perspectives

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The Office of Energy Independence (OEI) was established in 2007 to coordinate the state of Iowa's policy.

OEI Vision



Iowans creating an economically viable and environmentally sound energy future.

OEI Mission



To achieve a clean and sustainable energy future by

- Providing leadership through education, research, planning, and investment
- Developing policies and resources to produce market transformation

Organizational Structure & Tasks



Structure:

- Operations staff (located in Lucas Bldg; 281-0187)
- Iowa Power Fund Board
- Due Diligence Committee
- Energy Coordinating Council

Initial Tasks:

- Iowa Power Fund
- Energy Independence Plan
- Energy Forums & Education
- Coordination of energy policy

Power Fund Open for Business



January 11, 2008

Iowa Power Fund Board



- Comprised of 18 members, 11 voting and 7 nonvoting, ex officio members
- Review and approve applications for assistance from the fund; direct moneys for technical assistance for the Diligence Committee
- Advise OEI on strategic direction for the Power Fund
- Resource to the Governor regarding renewable energy, renewable fuels & energy efficiency
- Currently designing the Power Fund Process

Due Diligence Committee



- Comprised of 7 members
- Reviews applications for financial assistance that come before the Power Fund Board
- Determines if a proposed project is practical, economically feasible
- May recommend to the Board approval on conditional basis or that an application be rejected

State Energy Council



- Membership consists of staff from various Iowa Departments & Organizations
- Input into Energy plan & review plan's compliance
- Sharing of energy information & rule making activities
- Provide technical expertise & assist w/ outreach
- Evaluate legislation
- Develop long term recommendations
- Keep OEI in the loop (monthly reports)
- Synergies

Task: Iowa Power Fund



- Almost \$25 million:
 - \$375,000 OEI administrative costs;
 - \$2.5 million – DED community college workforce training & economic development
- To provide financial assistance to entities in an attempt to increase Iowa's research, development, & use of sources of renewable energy; improve efficiency and reduce greenhouse gas emissions.

Eligible applicants



May Include:

- NAICS company proposing a project in Iowa
- Individual proposing a project in Iowa
- Government entity proposing a project in Iowa
- Non-profit proposing a project in Iowa
- Academic institution proposing a project in Iowa

Eligibility criteria for financial assistance



- Commercialization/product development
- Utilization of Iowa crops/products that maximize value of crops used as feed stock in bio-manufacturing products and as co-products
- Reduction of GHG, carbon sequestration
- Private or federal matching funds

Application Process



- Pre-application
- Full-application
- Website:

www.energy.iowa.gov

Iowa Energy Independence Plan



Iowa Plan for Energy Independence

Charting Iowa's Course in the New Energy Economy

December 2007

Submitted by the Iowa Office of Energy Independence

Task: Energy Independence Plan



- Due December 14, 2007
- Scope of Energy Independence plan:
 - Statement of where we are now in Energy use, policy, conservation, planning, renewables, etc.
 - Current efforts in Iowa
- Greater details in Iowa Energy Independent Plan of 12/14/08

Recommendations Cont.



Other Policy Recommendations for Iowa

- In cooperation with the appropriate state agencies, map priorities for transmission, pipeline, distributed generation, road, transit, rail, trail, and other infrastructure investments needed to enhance the state's energy independence efforts.
- Set numeric goals to promote and achieve all cost-effective energy efficiency measures, including attention to affordability issues.
- Direct energy providers to increase energy efficiency efforts, including education.

Recommendations Cont.



- Incent and require energy providers to increase the use and supply of renewable energy.
- Improve energy efficiency of existing buildings and new construction through implementation and enforcement of energy codes, and provide incentives for energy efficient construction that exceeds the required efficiencies.
- Establish a statewide public education, promotion, and branding initiative to create universal acceptance of the value, use, and return on investment of energy efficiency and renewable energy.

Recommendations Cont.



- Establish and implement a recognition program for model energy communities, corporations, non-profits, and public entities.
- Encourage construction of electric transmission for the continued development of renewable resources.
- Encourage research and commercialization of new renewable energy, renewable fuels, and energy efficiency initiatives.
- Adopt a statewide energy efficiency building labeling system for residential, commercial, and industrial complexes.
- Inform energy decisions using a statewide integrated resource planning model.

Recommendations Cont.



- Set standards to reduce greenhouse gas emissions 80% by 2050 through multiple strategies.
- Include greenhouse gas emissions as a criterion for the DNR to issue air permits.
- Encourage Iowa's production of cost-effective renewably-generated electricity.
- Accelerate the infrastructure development and use of renewable fuels for all transportation in Iowa.
- Join 16 states that have adopted or are considering adopting the California emission standards for passenger vehicles.



Iowa State Government Leading by Example

Executive Order 41



- Issued by Governor Vilsak, 4/22/2005
1. Reduction in energy usage in state facilities by 15% by 2010 in regards to 2000 levels.
 2. For equipment for which life cycle assessments can be made, all state agencies must purchase low life cycle cost equipment.
 3. 10% of energy used in state facilities will come from renewable energy resources by 2010
 4. 100% of all non-law enforcement state agency vehicles shall be flex fueled or electric hybrid. Furthermore, E85 shall be used whenever available.
 5. All agencies that procure bulk diesel fuel must have at least 5% renewable content by 2007, 10% by 2008, and 20% by 2010. All bulk diesel fuel must meet the ASTM D 6751 standard.

Executive Order 3



- Issued by Governor Culver on 6/21/2007
- 1. E85 usage in state flex fuel vehicles must increase to 60% by June 30, 2009.
- 2. Based on the plan to be completed by December 31, 2007; all agency directors will need to develop and implement a plan for achieving the goals of EO3.
- 3. Regularly updated station locations will be provided to state employees by the motor pool coordinator.
- 4. Agencies and agency directors will promote the use of E85 to all employees.

Executive Order 6



- Issued by Governor Culver on 2/21/2008 (today)
- 1. EO establishes a Green Government Initiative with a committee and task forces consisting of government, industry, and non-profit groups.
- 2. Three task forces will work to achieve these ends:
 - The Energy Excellent Buildings Task Force will focus on "greening" new and existing state office buildings and facilities, including leased space.
 - The Sustainable Materials Task Force will focus on procurement, operations and disposal of all materials used in state government.
 - The Biofuels Task Force will focus on increasing the use of biofuels by state agencies, reducing the number of miles traveled by the state employee workforce, and increasing the fuel efficiency of the state vehicle fleet.

Contacts



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www.energy.iowa.gov