



# **“Winning Strategies for Algae Grants and Guaranteed Loans”**

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## Stages of Development

**Research & Development**

**Pilot Plant**

**Demonstration Plant**

**Commercialization**



**Develop a strategy, capitalizing on your strengths and shoring up your weaknesses—**

**It is YOUR story.**

**Make it interesting and allow the reviewers to understand it completely.**

**Make it balanced.**

**Write to a 6th grade level.**



## National Biofuels Action Plan

NBAP action areas include:

**Sustainability:** A working group led by USDA, DOE, and the Environmental Protection Agency (EPA) is defining science-based national criteria.

**Feedstock Production:** feedstock availability and cost study and a long-term integrated feedstock research and development plan.

**Feedstock Logistics:** develop and deploy logistics systems that can supply cellulosic feedstocks to demonstration facilities.

**Conversion Science and Technology:** a 10-year federal science and technology research plan

**Distribution Infrastructure:** studying the feasibility of transporting ethanol in pipelines GIS capabilities across agencies.

**Blending:** blending ethanol with gasoline in amounts greater than 10 percent (E10)

**Environment, Health and Safety:** An EPA-led working group in respect to public health, safety, and environmental protection.

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## DOE Guaranteed Loan Program

**Just released June 30, 2008, open until 12/31/08**

**80% Loan Guarantee**

**Letters of Commitment for all Equity**

**New or Significantly Improved Technology, not  
commercial**

**Must have completed pilot plant and demonstration plant**

**Detailed Engineering**

**Independent Engineering Report**

**Must be Creditworthy**



## DOE Biomass Pilot or Demonstration Plant Program

**Will be released 12/1/08**

**New or Significantly Improved Technology, not  
commercial**

**For pilot plant and demonstration plant scale**

**Detailed Engineering**

**Independent Engineering Report**

**40–50% grant**



## USDA – 2007 Farm Bill Programs

### 9003 – Biorefinery Assistance Program

**Loans up to \$250 million and 30% grants**

**Commercial, Pre-Commercial and Demonstrations Plants  
eligible**

**Looking for technology that is ready to go and is  
innovative.**



## USDA – 2007 Farm Bill Programs

### 9004 – Repowering Assistance Program

**Install new biomass energy systems in existing refineries, or produce energy from biomass for plant operations instead of fossil fuels.**





## USDA – 2007 Farm Bill Programs

### 9005 –Bioenergy Program for Advanced Biofuels

**Payments to support and expand production of advanced  
biofuels.**

**A new product in a new market in a new geographic area.**

**Priority release for Fall 2008.**



## USDA – 2007 Farm Bill Programs

### 9007 –Rural Energy for America Program (REAP)

**25% grant up to \$500,000**

**Up to \$25 million in loan guarantees**

**Commercial technology**

**25% grant for Feasibility study and energy audit grants**

**Will open in Spring 2009**



## USDA – 2007 Farm Bill Programs

### 9008 –Biomass Research & Development Program

Research and development on feedstock development, biofuels and biobased products development, and biofuels development.

About 800 applications annually, 20–30 funded annually.



## USDA –Business & Industry Loan Program

**Loan guarantees in rural areas with 50,000 population or less**

**Guarantee up to \$25 million**

**Can be used in conjunction with 9007 REAP Program loan guarantee**

**Available throughout the year**



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