Ground Water Protection Council Annual Forum

September 27, 2011

Atlanta, GA
25x’ 25 Initiative:

- Renewable energy initiative born in the ag and forestry sectors
- Supported by the Energy Future Coalition
- Seeks to forge consensus on a new energy future
- Focuses on economic, national security and environmental benefits
- Formed in Spring 2004
- Organized to explore agriculture and forestry’s role in energy production
- Four-phase project
  - create a vision
  - build an energy alliance
  - construct an implementation strategy
  - work to bring the 25x’ 25 to life
Our Vision:

By the year 2025, America’s farms, ranches and forests will provide 25 percent of the total energy consumed in the U.S. while continuing to produce safe, abundant and affordable food, feed and fiber.

25×’ 25
We will meet this goal by producing transportation fuels, harnessing wind energy & geothermal resources, capturing solar energy, converting biogas emissions and providing biomass for generating heat and power.
Over 1000 organizations have endorsed ….

- National Farmers Union
- American Farm Bureau Federation
- National Corn Growers Association
- National Rural Electric Cooperative Association
- National Education Association
- Deere & Company
- “Big 3” Automakers – Ford, Daimler Chrysler, GM
- American Wind Energy Association
- Basin Electric
- Natural Resources Defense Council
Active Alliances
America’s Energy Future

Forming Alliances
Alliance Planning Underway
All Alliance Activity

America’s Energy Future
Governors’ Endorsements
Legislative Endorsements

- Yellow = legislation passed
- Green = legislation pending
America’s Energy Future

...states leading by example

BILL RITTER
Colorado’s Governor

denverpost.com
THE DENVER POST

CELEBRATING 100 YEARS
ROCKY MOUNTAIN FARMERS UNION

Proud History, Promising Future

Colorado State University

COLORADO FARM BUREAU
THE VOICE OF AGRICULTURE IN COLORADO

DMEA
We Energize and Serve our Communities
Univ. of Tennessee Study Objectives

- Determine the ability of America’s farms, forests and ranches to provide 25% of U.S. total energy needs in 2025
- Assess the economic impacts of achieving the 25x’ 25 goal on the ag sector and the overall economy
Two Scenarios Examined

- **AE**: 25% of all energy consumed
  
  \[117.7 \text{ quads} \times 25\% = 29.4 \text{ quads}\]

- **EPT**: 25% of electric power and transportation
  
  \[81.62 \text{ quads} \times 25\% = 20.4 \text{ quads}\]
America’s Energy Future

Renewable Energy

Electricity
- Residues
  - Corn, Wheat
- Dedicated Energy Crops
- Cattle Manure
- Digester
  - Dairy, Poultry, Hogs
- Mill Wastes
- Forest Residues

Biodiesel
- Oilseed Crops
- Tallow
  - Beef and Poultry
- Yellow Grease

Ethanol
- Corn
- Residues
  - Corn and Wheat
- Dedicated Energy Crops
- Forest Residues
- Mill Wastes
- Food Wastes
Study Results

- America’s farms, forests and ranches can play a significant role in meeting the country’s energy needs.

- The 25x’ 25 goal can be met while continuing to provide safe, abundant and affordable food, feed and fiber.
By 2025, America’s farms, forests and ranches can annually produce:

- 86 billion gallons of ethanol
- 1.1 billion gallons of biodiesel
- 932 billion kwh of electricity
- 15.45 quads of energy from biomass
America’s Energy Future

Feedstocks Used to Reach 25x’ 25

- Soybeans
- Corn Grain
- Wood Residue
- Straw
- Stover
- Dedicated Energy Crops

Million tons

Year

Changes in Land Use for Selected Simulated Years under the **AE** Scenario.
Each State Benefits
Total Industry Output

Change in Agriculture

Renewable Energy Conversion
## Impacts on National Economy in 2025

<table>
<thead>
<tr>
<th></th>
<th>EPT</th>
<th>AE</th>
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</thead>
<tbody>
<tr>
<td>Economic Activity</td>
<td>$587 billion</td>
<td>$700 billion</td>
</tr>
<tr>
<td>Jobs</td>
<td>4.0 million</td>
<td>5.1 million</td>
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</table>
Implementation strategy:

- Process began in July 2006
- Guided by “yes—if” principle
- “Whats” and “hows” to get to 25x’ 25
35 Recommendations- Five Areas of Focus

- Increasing production
- Delivering Energy to Markets
- Expanding Renewable Energy Markets
- Improving Energy Efficiency and Productivity
- Strengthening Conservation of Natural Resources and the Environment
Action Plan calls for:

- Increased funding for RDD&D
- Expansion of current production incentives
- New Feedstock Residue Management Program
- Exploring a permanent counter-cyclical incentive system for biofuels in relation to oil
- Incentives to build new transmission lines
- Mechanism to get to 50% flex-fuel vehicles
- Expanding conservation and energy programs in the Farm Bill
25x’ 25 Action Plan will:

- Correct energy market rules and prices
- Generate $700 billion in economic activity annually
- Create 4-5 million jobs
- Reduce carbon dioxide emissions by one billion tons annually

All for only an investment equal to 5% of what America will spend on imported oil in 2010.
The 25x’ 25 Vision:

- Is achievable
- Provides a positive impact on the national and rural economies
- Reduces our reliance on foreign oil and improves national security
- Creates important environmental benefits
Please join us in bringing the vision of 25x’ 25 to life.

www.25x25.org