Regional Feedstock Strategies for Growing America’s Fuels

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Senior Advisor for Bioenergy
Governors Biofuels Conference Call
April 16, 2010
National Biofuels Strategic Plan

• President Obama’s May 5, 2009 Memo directing formation of Interagency Working Group

• *Growing America’s Fuels* released February 03, 2010 by the IWG

• Present agency coordination and implementation plans developed

President’s Biofuels Interagency Working Group
*Growing America’s Fuels*
The White House – February 03, 2010
New Government-wide Approach

• Manage backwards from targets – use a supply chain systems approach
• Establish Lead Agency responsibilities for each supply chain segment – science with deliverables
• Focus resources on advanced biofuels – butanol, gasoline, diesel, & jet fuel
• Regionalized feedstock strategies – match biomass production with conversion systems to minimize transaction costs and create rural wealth

President’s Biofuels Interagency Working Group
Growing America’s Fuels
The White House – February 03, 2010
Work with Natural Limitations

Regions with Greatest NPP

Greatest NA NPP

1,200 gC/m²/year

1,680 gC/m²/year

2,600 gC/m²/year

Net Primary Production (gC/m²/year)
Dedicated Biomass Crops

Plant Adaptation Regions
## Dedicated Biofuel Feedstock Crops

<table>
<thead>
<tr>
<th>Energy Crop</th>
<th>Ethanol yield</th>
<th>Drop-in fuel yield</th>
<th>Annual production</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>gallons/acre</td>
<td>gallons/acre</td>
<td>billion gallons</td>
</tr>
<tr>
<td>Sugarcane</td>
<td>1900</td>
<td>950</td>
<td>7.2</td>
</tr>
<tr>
<td>Woody biomass</td>
<td>1040</td>
<td>520</td>
<td>10.4</td>
</tr>
<tr>
<td>Perennial grasses</td>
<td>480</td>
<td>240</td>
<td>7.2</td>
</tr>
<tr>
<td>Biomass sorghum</td>
<td>480</td>
<td>240</td>
<td>1.2</td>
</tr>
<tr>
<td>Oil seed</td>
<td>0</td>
<td>70</td>
<td>0.5</td>
</tr>
<tr>
<td>Corn grain starch</td>
<td>430</td>
<td>215</td>
<td>15.0</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td></td>
<td><strong>41.5</strong></td>
</tr>
</tbody>
</table>
Meeting National Biofuels Goals
Meeting National Biofuels Goals

A complete supply chain systems approach

A whole-government effort to accelerate commercial investment in biofuel production
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