



WESTAR
TRADE RESOURCES





WESTAR
TRADE RESOURCES





Where We've Been

1. Sustainability
2. Commodities tied to price of oil
3. Feedstock supply



Where We Are Now

1. High energy prices
2. National security issues
3. Desire to regain control of our destiny



Where We Are Going

1. Using non-food materials to produce energy
2. Regionalized self-containment
3. Reducing transportation costs for feedstock and finished goods



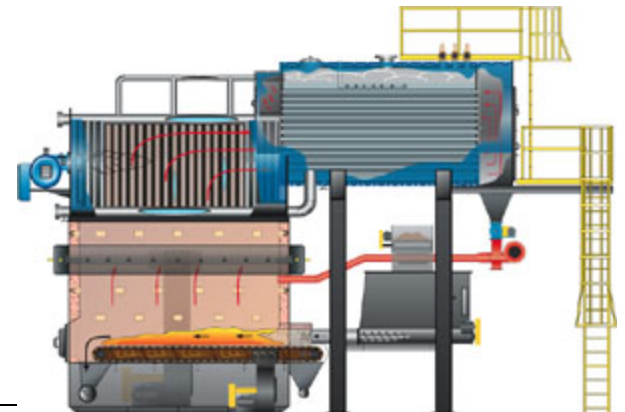
Project Goals

1. Regional demographic of feedstocks within 50 mile radius, ideally located at the feedstock source.
2. Easily replicable in other regions.
3. Profitability to maximize return on investment.
4. Moderate risk.
5. Manageable capital costs.
6. Long-term off-take agreements.



Technology Types

Anaerobic Digestion Methane Gas Natural Fertilizer Components	Boiler Systems Steam & Hot Water Electricity
Cellulosic Ethanol Algae to Biodiesel Transportation Fuel Electricity	Wind & Solar Electricity





Funding Sources

Grants	Loans
Carbon Credits & RECS	Equity



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



USDA – 2007 Farm Bill Programs

Value-Added Producer Grant Program

50% matching grants

Up to \$100,000 for Feasibility Studies

Up to \$300,000 for Working Capital



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 –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



Strategies for the “Next Harvest”

1. Think “Outside the Box”
2. Look for local and regional applications.
3. Partner with industry, communities, and electric coops.
4. Look for local energy needs and provide long-term, sustainable solutions.
5. Start small.
6. Think flexibility.



WESTAR
TRADE RESOURCES





Cindy Thyfault, President

Westar Trade Resources

100 Crescent Court, 7th Floor

Dallas, Texas

214-320-0900

www.westartrade.com