



WESTERN GOVERNORS' ASSOCIATION

**Supporting
Biomass Utilization
The Western Governors'
Role**

Gayle Gordon
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WESTERN GOVERNORS' ASSOCIATION

Mission

- WGA addresses important policy and governance issues in the West, advances the role of the Western states in the federal system, and strengthens the social and economic fabric of the region.
- WGA develops policy and carries out programs in the areas of natural resources, the environment, human services, economic development, international relations and state governance.
- WGA acts as a center of innovation and promotes shared development of solutions to regional problems

Western Governors' Association



Bioenergy Program



NATIONAL BIOMASS PARTNERSHIP:

Mission Statement:

Facilitate the increased use of BioEnergy and Biobased Products through coordinated federal, regional and state technical assistance and educational outreach.



Clean and Diversified Energy Initiative

Clean and Diversified Energy Initiative



Western Governors' Resolution Goals

1. Add 30,000 megawatts of clean energy by 2015
2. Increase energy efficiency 20% by 2020
3. Meet transmission needs over the next 25 years

Clean and Diversified Energy Initiative



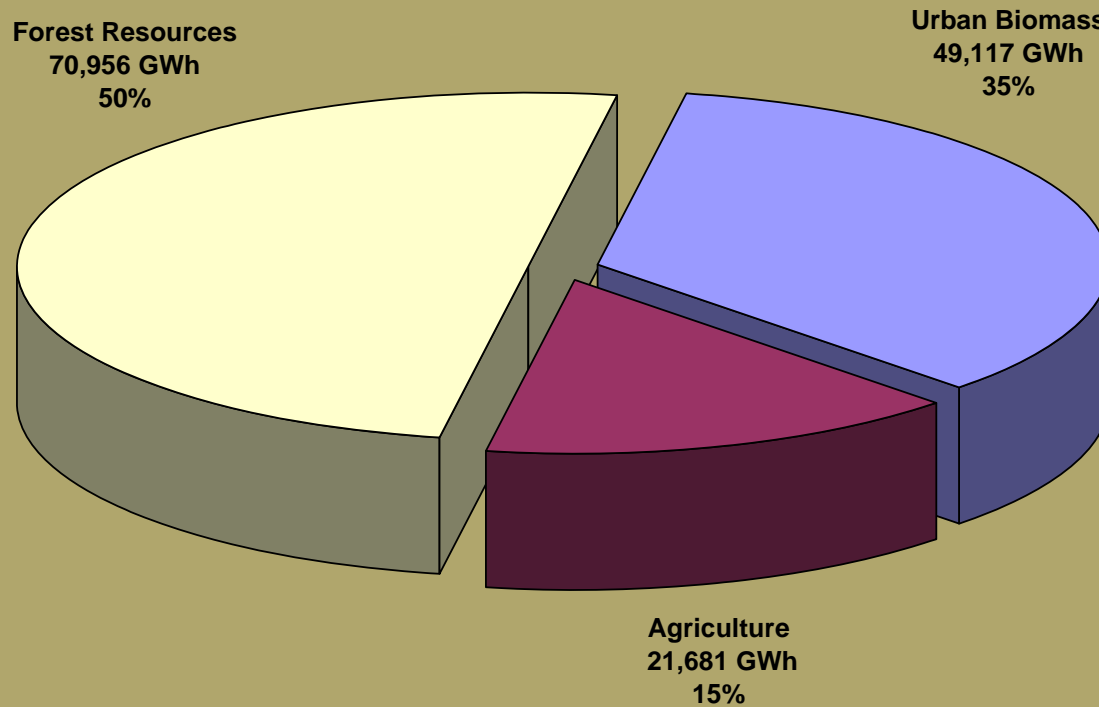
Potential 2015 Generation Capabilities Identified by Task Forces

Advanced Coal –	5,000 megawatts
Biomass –	10,000 megawatts
Geothermal –	5,600 megawatts
Solar –	8,000 megawatts
Wind –	9,000 megawatts (no new transmission)
Energy Efficiency –	48,000 megawatt decrease in forecasted demand (by 2020)

Clean and Diversified Energy Initiative

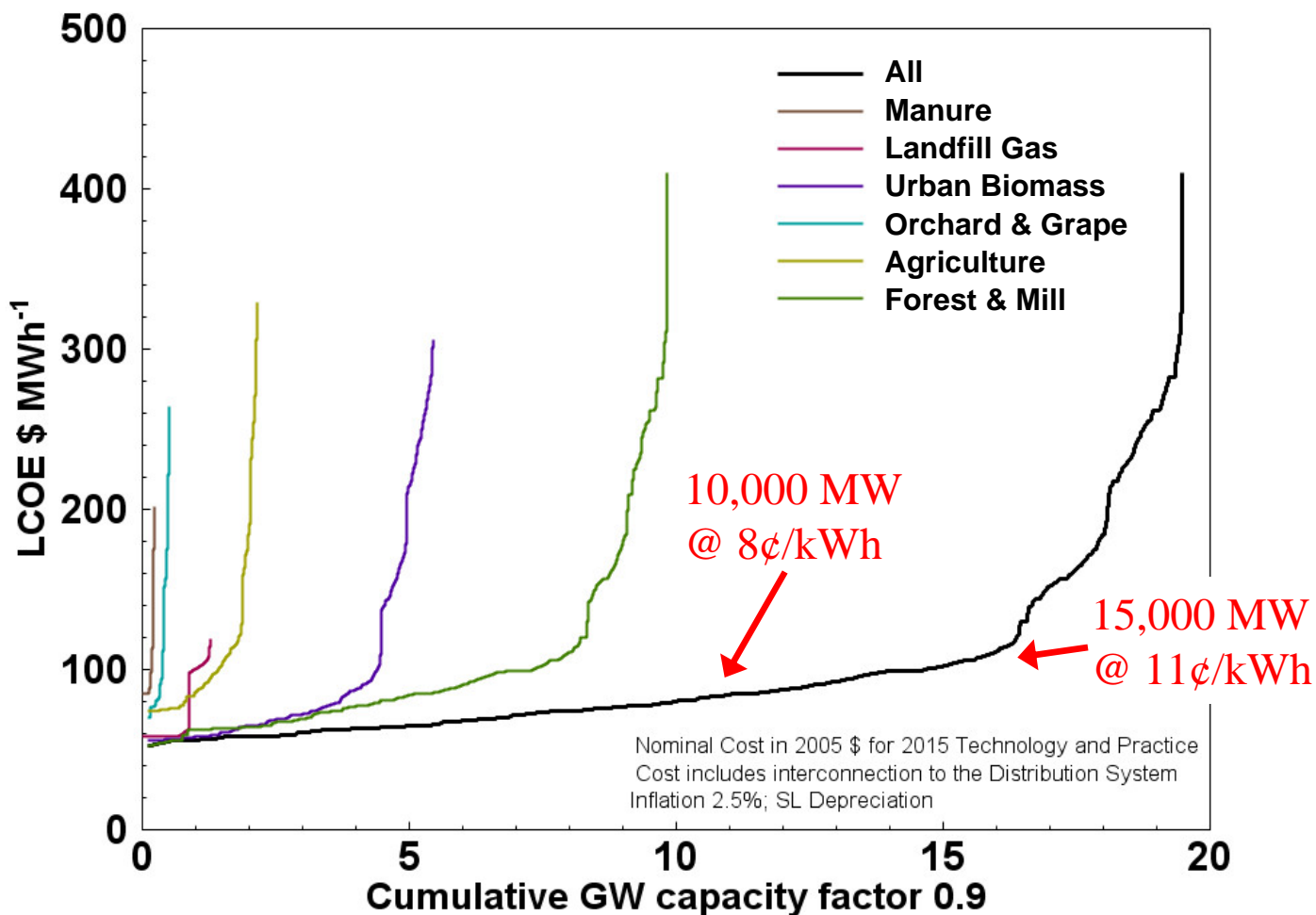


Biomass (GWh/y equivalent) in the WGA Region Available for Power Generation



Biomass Fuel Supply – Cumulative

WGA - Biomass Supply



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Ancillary Benefits of Biomass Energy Production

Synergies with existing infrastructure

Fire Risk Reduction

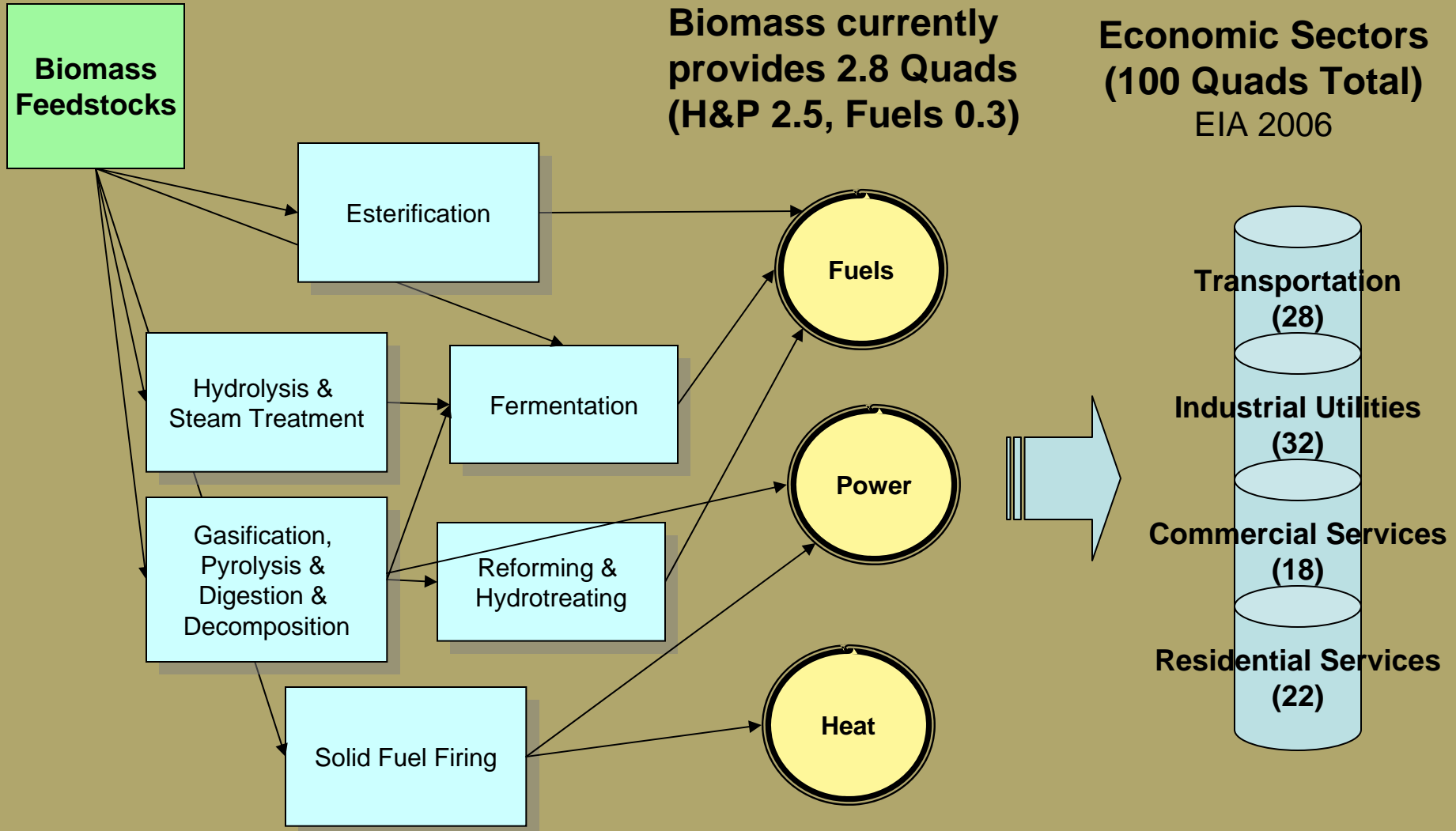
Rural Economic Growth And Preservation

Distributed Resources

Productive Use of Byproducts

**External Benefits of biomass generation valued up to 11 cents
/KWh**

Biomass Conversion and Product Options



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Biomass Recommendations -

- Achieve tax parity among renewable technologies.
- Strengthen Federal land management policies to allow larger, longer restoration projects.
- Environmental benefits of biomass should be paid for by beneficiaries.
- Demonstrate government leadership by purchasing power/RECs from biomass projects and supporting biomass R&D.

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Biomass Recommendations -

- Recognize the value of firm capacity in renewable purchase programs.
- Renewable energy credits should not include ancillary environmental benefits.
- Establish a single definition for biomass.
- Revise utility interconnection policies.
- Provide long-term certainty for biomass programs.
- Consider avoided fuel-based emissions when issuing air quality permits.

Biomass Utilization



Development and Operational Issues

- Satisfying Community and Environmental Concerns (not unique to biomass)
- Access to stable fuel supply
- Complexities of Fuel Supply management with multiple small to medium sources
- Managing Fuel Deliveries and Inventory
- Highly variable REC & RPS requirements
- Policies that initially encouraged development are not always sustained

Biomass Utilization



What more is needed for electricity and heat generation

- Develop systems with higher efficiency and lower environmental impacts
- Develop systems that handle diverse feedstocks
- Establish and adopt values and external benefits
- Education – public, government, NGOs
- Include biomass utilization in college curricula

Implementing the Biomass Recommendations



- **Legislation drafted to get PTC parity**
- **Dialog with utilities**
- **Work with FS and BLM**
- **Work to value externalities**
- **Dialog with EPA on emission issues**
- **Collaborate with other organizations**
- **Support public outreach**

Transportation Fuels for the Future



Transportation Fuels for the Future



Resolution Goals:

- Develop alternative/replacement fuels
- Develop adequate infrastructure including conversion facilities, storage facilities, vehicle systems, vehicle refueling facilities, distribution, and refineries

Transportation Fuels for the Future



Implementing the Resolution:

- Established an Advisory Committee and Alternative Fuels Technical Teams
- Teams described current status and drafted recommendations to move biofuels forward
- Public comment on reports (August)
- Workshop to refine recommendations (fall)
- Recommendations to the Governors (Dec)
- WGA has received a Grant from the USDA

Clean and Diversified Energy Initiative



Please visit the WGA web site for more information on the:

- **Clean and Diversified Energy Initiative and the full task force reports**
- **Future Transportation Fuels**
- **Western Regional Biomass Program**

www.westgov.org

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Gayle Gordon

ggordon@westgov.org

303-623-9378