



Heating Wisconsin with Renewable Energy

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About RENEW Wisconsin

- We advocate, educate, and collaborate for Wisconsin renewable energy
- Our advocacy is mainly through state and utility policies & programs
- Our work has included:
 - Focus on Energy incentives for renewables projects
 - State renewable electricity standard of 10% by 2015
 - Wind energy siting rules
 - Green electricity and “buyback” programs
 - Intervening in utility rate cases



- Started in 1991, we are a non-profit organization largely supported by Business Members, Individual Members, annual events, and foundation grants

Sorry I missed you all yesterday....



Wisconsin Biomass & Renewables *Fast Facts*

Est. Number of Wisconsin
Homes using Wood Heat

106,000

4.6%

Percentage of Wisconsin's
total energy which comes
from renewables

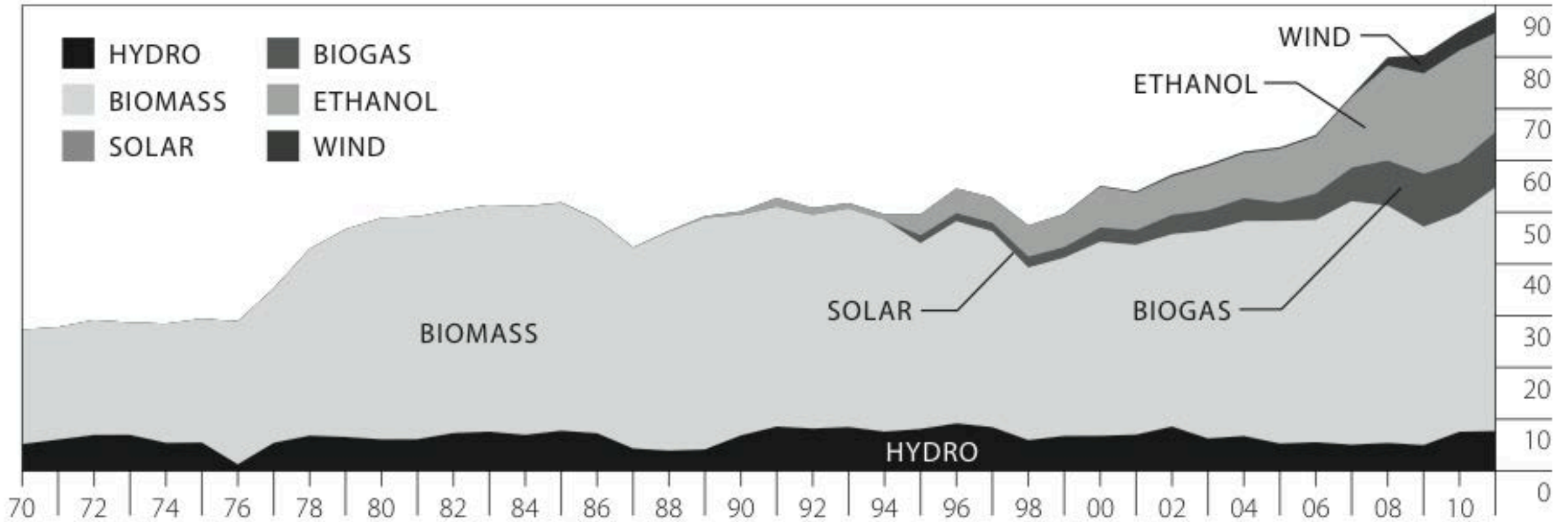
5.4%

BUT...how much of WI
renewables come from
biomass?

53%



Biomass Energy is Wisconsin's Most-Utilized Renewable Resource



Courtesy State Energy Office: Wisconsin Energy Statistics Book 2012

Dr. Dan Arvizu, Director of National Renewable Energy Lab



“When I requested the trip to come to Wisconsin in January, I got no concerns from the Dept. of Energy about it being a boondoggle.”

Dan’s 3 Main Points:

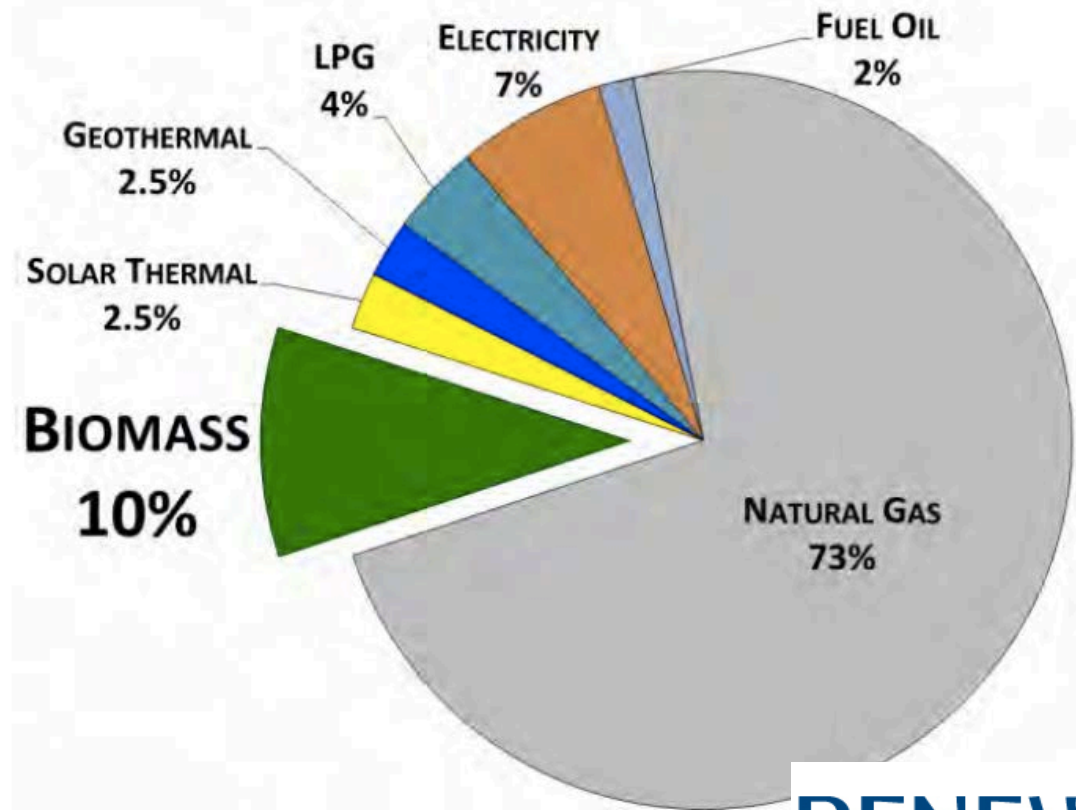
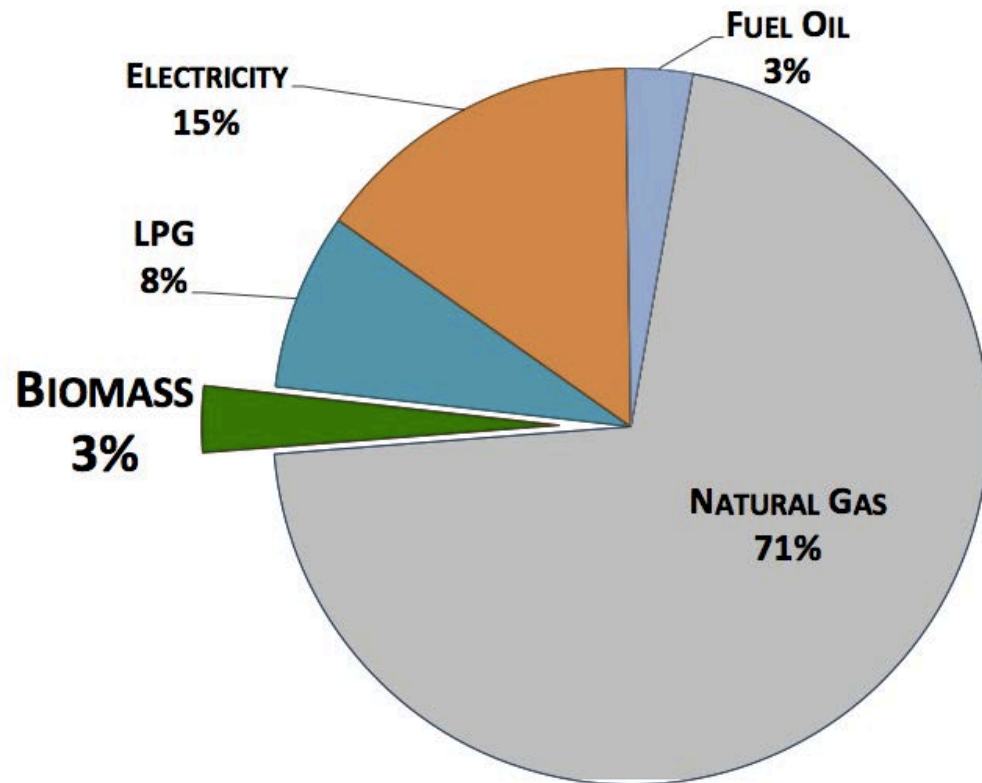
- There is tremendous potential
- We need to invent the future we want
- The pace of the transformation of our energy system does matter. If we want to make a difference, we have to start now, and be aggressive.



Achieving the HTM Vision Will Take **Policy & Leadership**

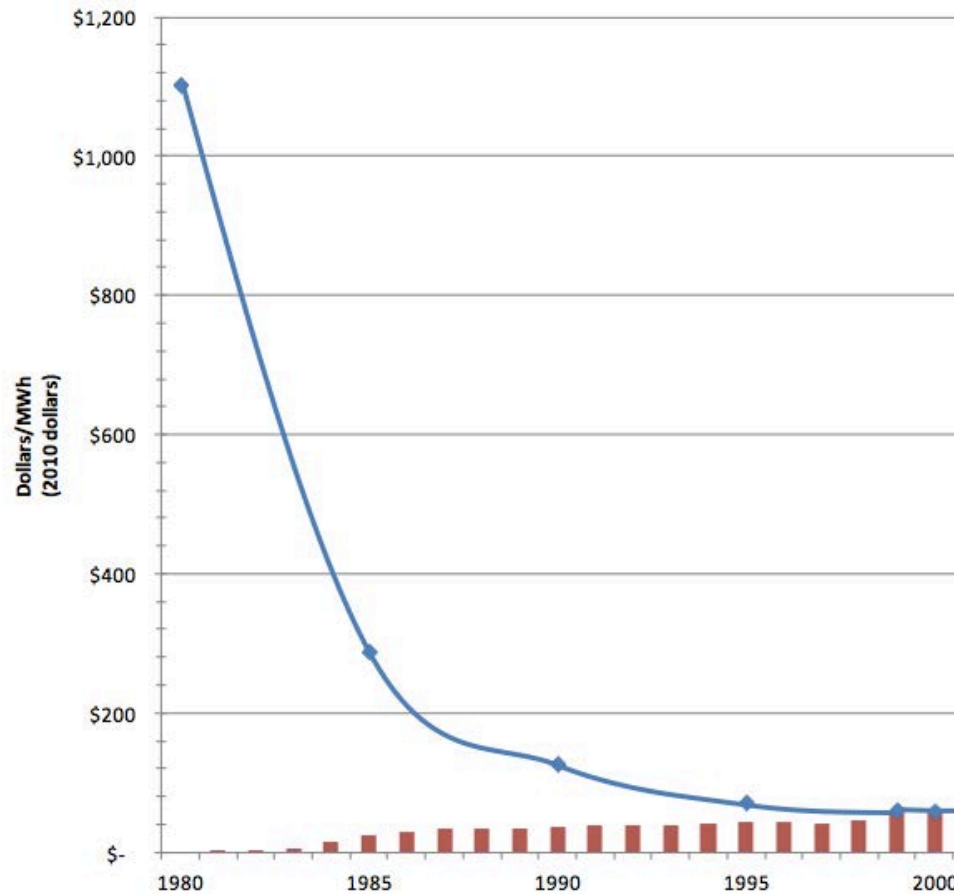
2012

2025

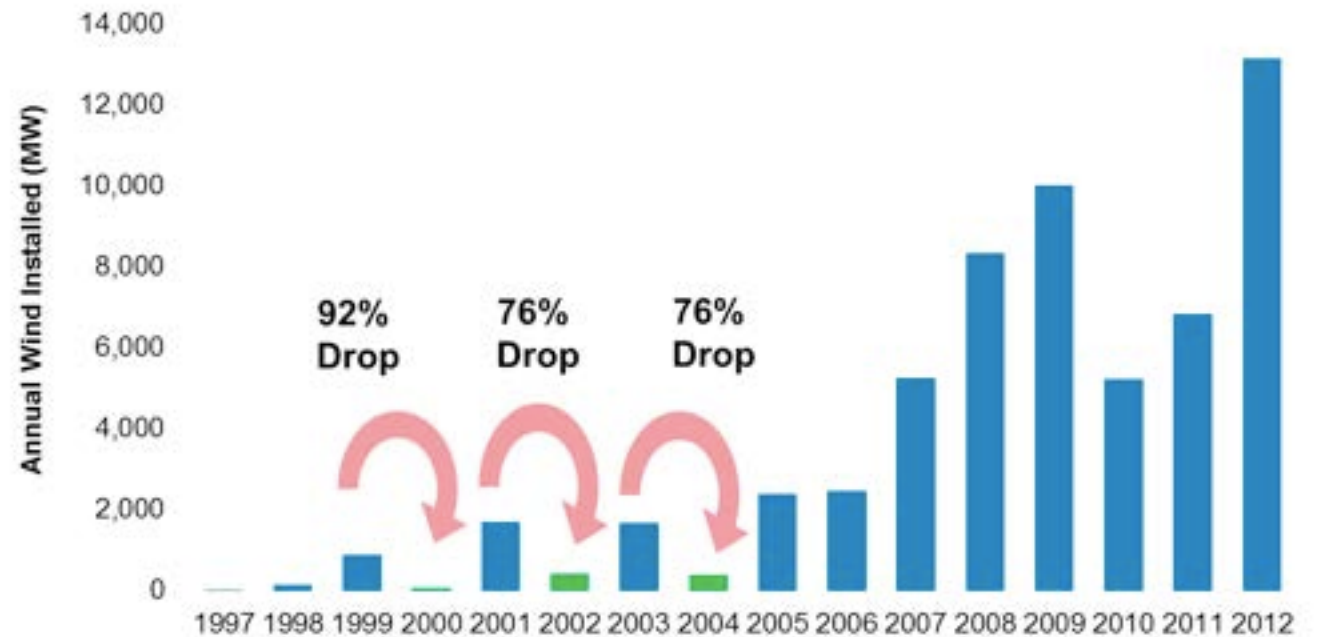


Wind Energy Example of Policy Driving Markets

Cost of Energy and Cumulative US Capacity



Historic Impact of PTC Expiration on Annual Wind Installation



Source: AWEA

Sampling of Wisconsin Biomass Initiatives & Policies Already In Place

- Wisconsin Strategic Biomass Assessment
http://energy.wisc.edu/sites/default/files/pdf/WI_Strategic_Biomass_Assessment_WEB.pdf
- Multiple and varied State Energy Office initiatives
- Dept. of Ag (DATCP) Bioenergy Council
- Woody Biomass Harvesting and Processing Tax Credit (10%)
- State Sales Tax Exemption
- Low-income pellet pilot
- Coulee region (SW Wisconsin) Study:
\$7.3 million savings for 9 county-region if 1 in 5 switched to pellets

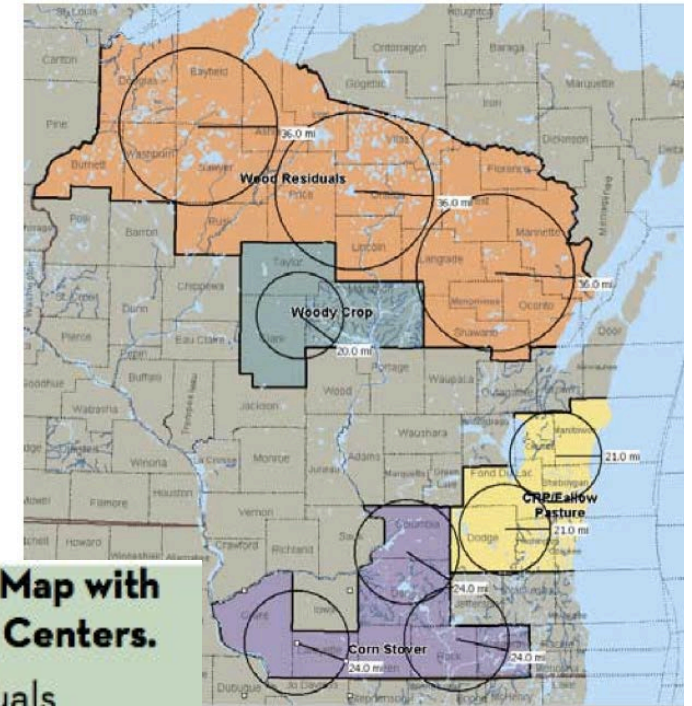


Figure 5. Wisconsin Map with Natural Aggregation Centers.

Orange: Wood Residuals
Teal: Woody Crop
Yellow: CRP/Fallow Pasture
Purple: Corn Stover

Thermal Renewable Energy Standard

Extend the idea of renewable electricity standard to thermal renewable energy

Use the HTM vision to guide a Wisconsin standard

RENEW Wisconsin believes any new renewable standards should have in-state renewable components to drive local economic activity

“Clean Energy Choice”

- Allow third parties to own, operate, maintain renewable energy systems and sell the output (heat, electricity) to the customer on the premises
- “Gray area” of public utility law which is restricting private property rights and investment into clean energy
- Public campaign and support – Join the likes of 103 organizations in support, including:



8 County Resolutions
3 City Resolutions



Expand Customer Incentives for Efficient Wood Heating Appliances

- Allow propane and oil customers to participate in rebate program



focus on energySM

Partnering with Wisconsin utilities

- Maryland, New York, and Maine offer rebates for efficient wood and pellet appliances.
 - Maryland: \$500 for wood (no more than 3 g/hr); \$700 for pellet (2 g/ hr)
 - Maine: \$250 rebate for approved wood and pellet stoves

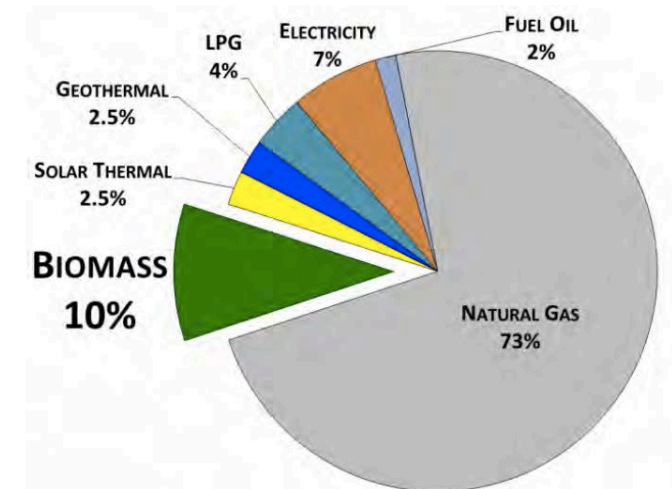
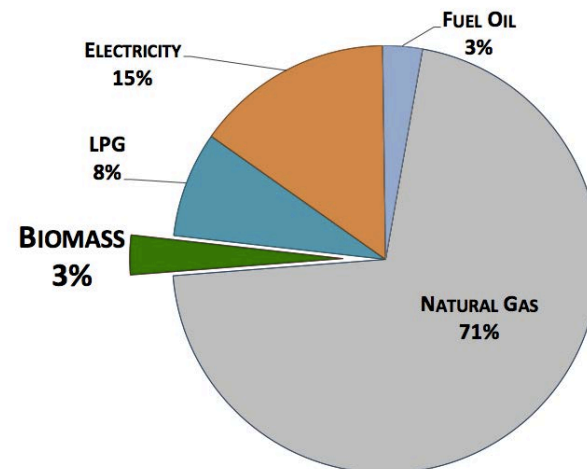


ALLIANCE
FOR GREEN HEAT
clean, renewable & local



Take-Aways

1. We have tremendous biomass resources and opportunity
2. We need to invent the future we want – HTM Vision
3. Policy & leadership is needed to get from here to there





Thank You!

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