

Bioenergy Summit: *The Extension Perspective*

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Director

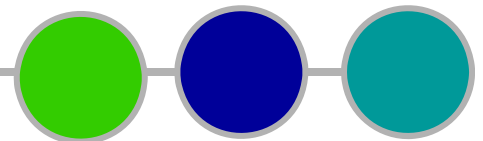
WSU Extension Energy Program

March 10, 2006

Extension & Bioenergy

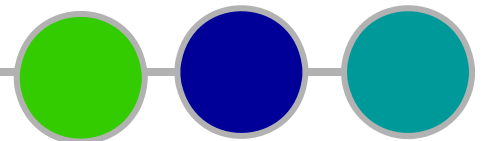
**The best of research-based knowledge
transforming our economy and
society**

- Technology transfer
- Technical assistance and troubleshooting
- Information and education
- Stakeholder relations for roadmapping
- Bioenergy – Biofuels, Biopower and Bioproducts



Extension Bioenergy An Organizational View

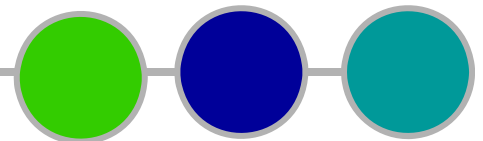
- Extension Energy Program
- CSANR
- County Educators
- ARS/Research stations



Extension Bioenergy A Topical View

Strengths – From survey

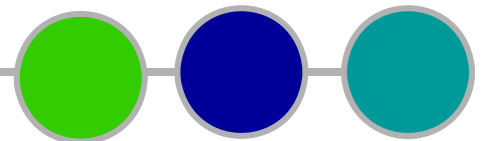
- Biofuels – A rich range of capability
- Biopower – Again, solid strength
- Bioproducts – Some concentrations –
Especially when tied to biofuels and power



Extension Energy Program

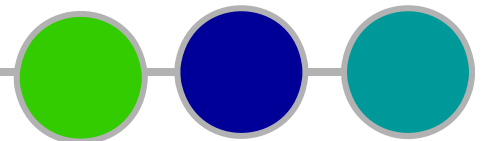
No joint appointments

- Bioenergy program since 1983
- Two key staff members – a strong program mix
- Support of \$98,000 in new 2006 Legislative Supplemental Budget
- Biofuels, biopower and bioproducts that offset fossil energy



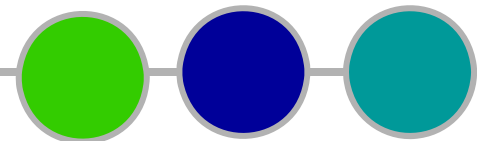
National Involvement in Bioenergy

- Serve on National Biomass State and Regional Partnership Collaborative
- Work with U.S. Department of Energy, Office of Bioenergy
- Provide steering committee direction to Pacific Regional Biomass Energy Partnership
- Member of ASERTTI Bioenergy Committee



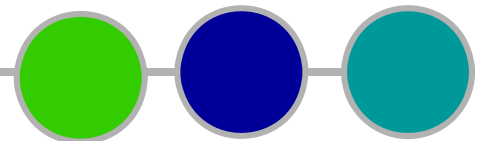
Specific Efforts An Energy View

- Technical assistance and trouble shooting
- Roadmap development with stakeholders and research
- Six state bioenergy website – www.pacificbiomass.org
- Information, outreach and education
- Biopower – The Northwest CHP Application Center – www.chpcenternw.org
- State bioenergy and WSU/PNNL teams



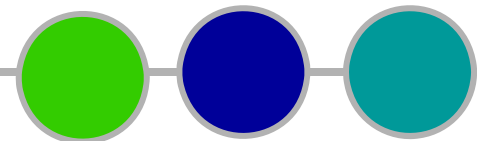
CSANR

- Founded in 1990 – Significant bioenergy effort began in 2003
- Climate Friendly Farming – Anaerobic Digestion R&D
- Triple Bio leadership
- Key WSU bioenergy cross-talk meetings



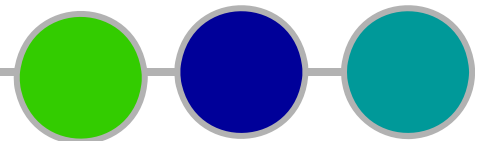
County Educators

- Long-standing involvement with bioenergy – especially oilseed and other energy crops (late 1970s)
- Research & Extension
- Dairy counties - Biopower



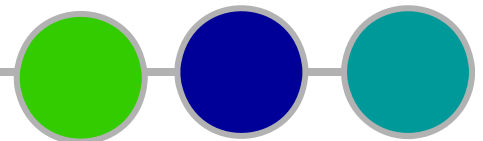
ARS/Research Stations

- Long-standing involvement with bioenergy – especially oilseed and other energy crops (late 1970s)
- Research & Extension
- Dairy, hybrid poplar as an energy crop and compost



How Do We Coordinate Bioenergy?

- **Selection of leadership**
- **Monthly calls and an annual meeting**
- **Development and implementation of the bioeconomy roadmaps**
- **The “energy metrics”**
 - *Gallons of biodiesel and ethanol*
 - *Megawatts of Power*

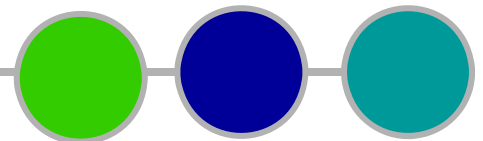


The Challenge Building the Bioeconomy

The “energy metrics” for the entire value chain

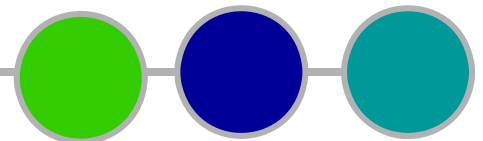
- Gallons of biodiesel and ethanol
- Megawatts of power
- Co-product production

It is a very big task



Legislative News

- Budget
- Renewable fuels standard ESSB 6508
- Energy Freedom Fund E3SHB 2939 -
Encouraged to read carefully



Largest Extension-Based Energy Program in the Country

Staff of 60

Engineers

Energy specialists

Scientists

Web and graphics

Other professionals

\$6-7 million annual budget

