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rechargecolorado.

Diversified Energy Portfolios and Economic Development

*4th Annual Western Regional Conference Women in
Government*

Mona Newton, Governor's Energy Office



Governor's
Energy Office





Weatherization

Commercial and Residential
Efficiency

Transmission and Smart Grid

Transportation Fuels

State and Local Outreach

Renewable Energy
Development

Finance

Policy, Regulation and Outreach

- Legislation
- Relationships and planning
 - Investor owned utilities
 - REAs, Munis and Co
- Education
- Energy issues analysis

Economic Development Efforts

- Policy
- Higher Ed involvement – Collaboratory
- Financing
- Job Training
- Economic Development Agency involvement – OEDIT, local entities
- Industry involvement

Path to a diversified Energy Portfolio

- ✓ Legislature did not adopt a Renewable Portfolio Standard – Renewable Energy Standard
- ✓ 2004 Voter led initiative passed Amendment 37 – 10% of electricity obtained by largest utilities would be renewable
- ✓ 2007 Legislature and Governor increased to 20% and added 10% to come from REAs/Munis
- ✓ 2010 - 30% RPS – affected only large IOUs

Colorado State Energy Policies

Since 2007 – 57 different pieces of legislation to promote energy efficiency and renewable energy have been passed and signed into law.

In 2010 14 bills were signed that support e.e. and r.e.

In 2011 5 bills were signed that support e.e. and r.e.

Focus is now on implementation!

Colorado State Energy Policies Highlights

- HB 1001 Increased the RPS from 20% by 2020 to 30% by 2020. Affects the Investor Owned Utilities.
- SB 1328 – New Energy Jobs Creation Act (aka PACE)
- HB 1365 - Requires Utilities to convert from Coal to Natural Gas
- HB 1342 – Community Solar Gardens bill

Financing



GEO revolving Loan Program for companies in the energy efficiency and renewable energy space that can't get traditional financing.

- Bach Composites – composites for Vestas
- Ravenbrick – window film
- Brightleaf – concentrated solar technology
- 2020 Lawrence – green development

Business model for creating jobs, attracting investment and producing innovative clean-energy technologies. \$458 M in VC capital in 2008,

17,000 Coloradans now work in renewable energy and energy research jobs in Colorado, the highest concentration in the country.

Dozens of Companies like Vestas Wind Systems, First Wind, Abound Solar, Ascent Solar and Solix are growing and adding jobs in Colorado. **More employers!** Primary employers typically create

Colorado is home to clusters of companies in the solar, biomass, smartgrid, water, advanced transportation and energy efficiency fields.



businesses – international and national looking to develop their business or relocate to Colorado – Colorado is very active in recruiting new companies and developing retention and expansion programs

Community Colleges are developing new programs to meet employer needs

Green Jobs Coordinator working with Colorado Department of Labor and Employment to connect energy efficiency and renewable energy between work force centers, grant funds, etc.

Economic Development Activities

- Green Jobs Advisory Council
- Industry Associations focused on Clean Tech and aiding with Economic Development – Colorado Clean Tech Industries Association, Clean Launch, Intrawest Energy Alliance
- Center for Renewable Energy and Economic Development (CREED) – National Renewable Energy Lab, GEO, OEDIT, CCIA, Metro Denver EDC,

Economic Development Activities

- Professional Associations to support women in energy efficiency and renewable energy

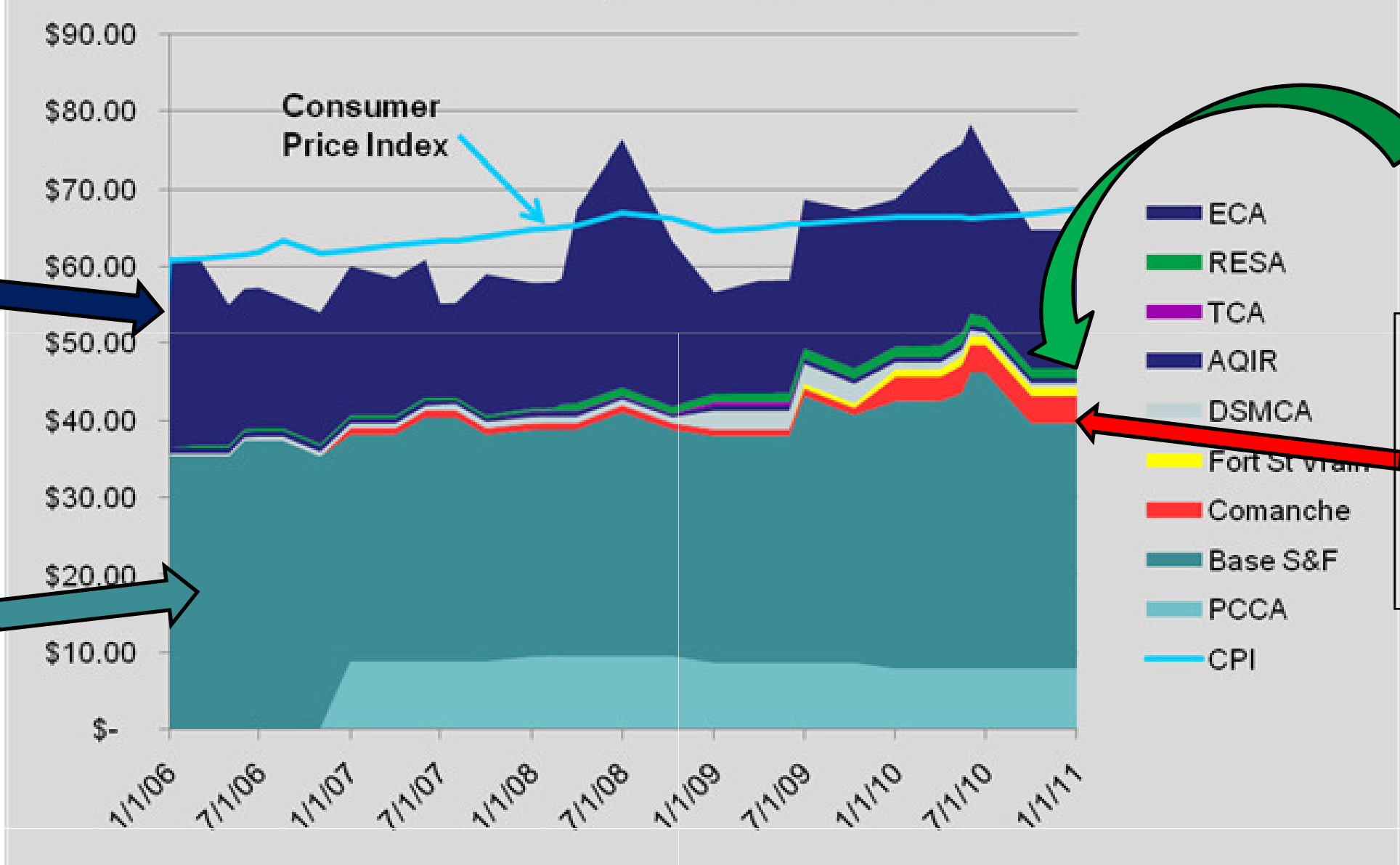
WISE – Women in Sustainable Energy

WoWE- Women of Wind Energy



Costs (as of)

Costs (as of)



Electric Cost Adjustment; RESA= Renewable Energy Standard Adjustment; TCA=Transmission Cost Adjustment; AQIR= Air Quality Improvement Rider; DSMCA= Demand Side Management Cost Adjustment; Fort St. Vrain= PSCo-owned gas peaking units; Comanche= new 750 MW coal-fired generating station in Pueblo; Base S&F= Base Service and Facility Rates or Base Rate; PCCA= Purchased Capacity Cost Adjustment paid to independent power producers

Thank You!

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