Montana's on the Move

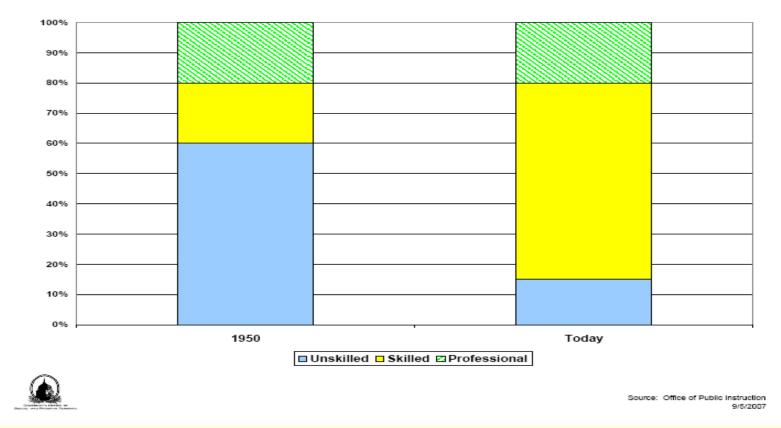


MASS Spring Conference April 1, 2008

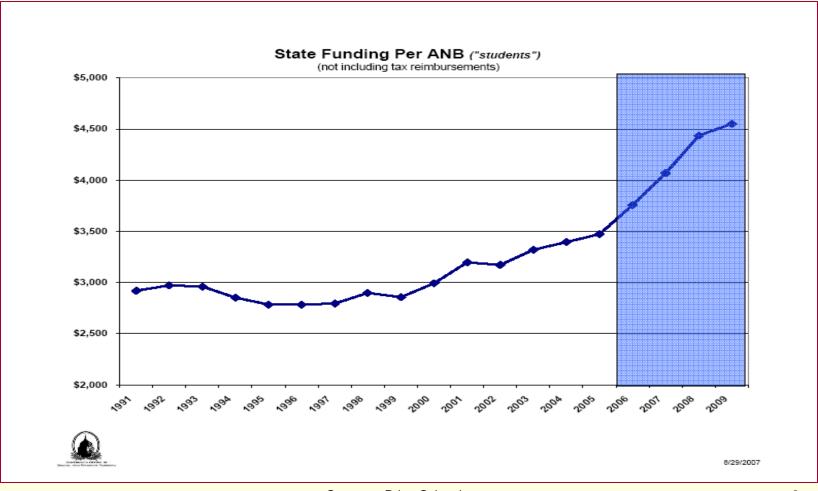
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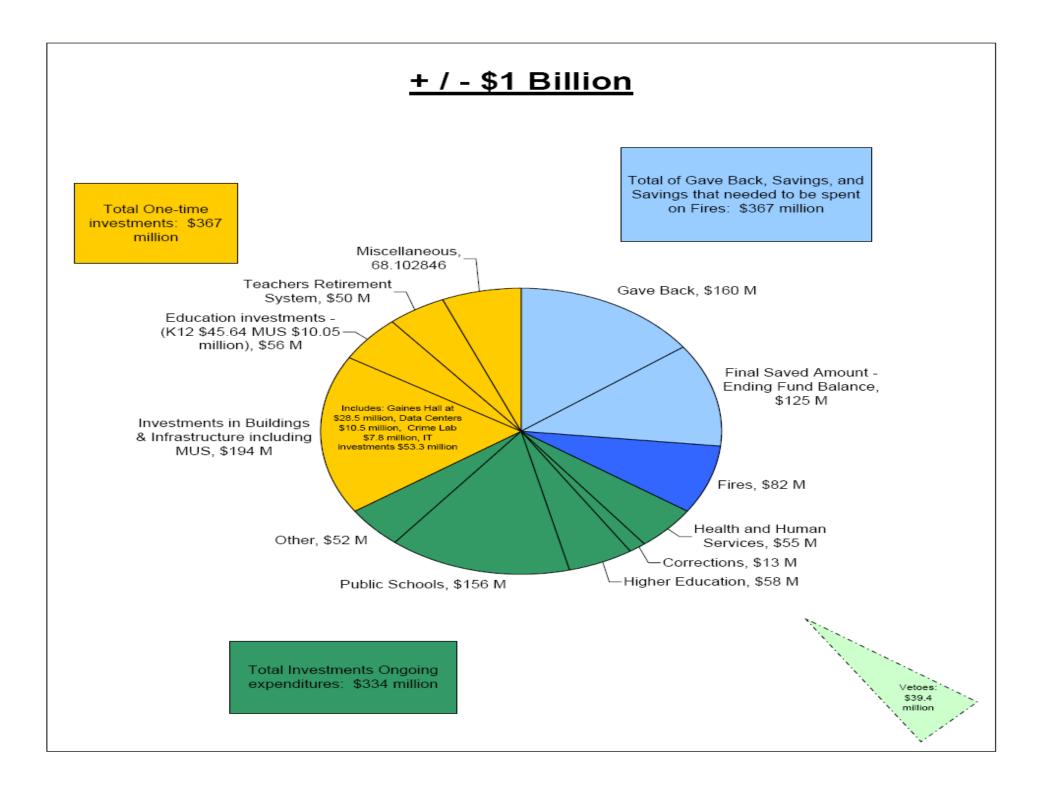
Montana's on the *Move* Building a Ready Workforce

Skill Level Needed in the Workforce

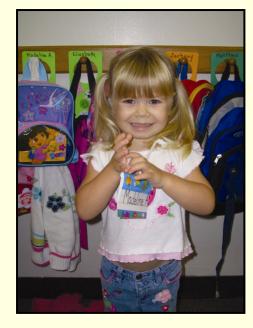


Montana's on the *Move* Quality K-12 Education

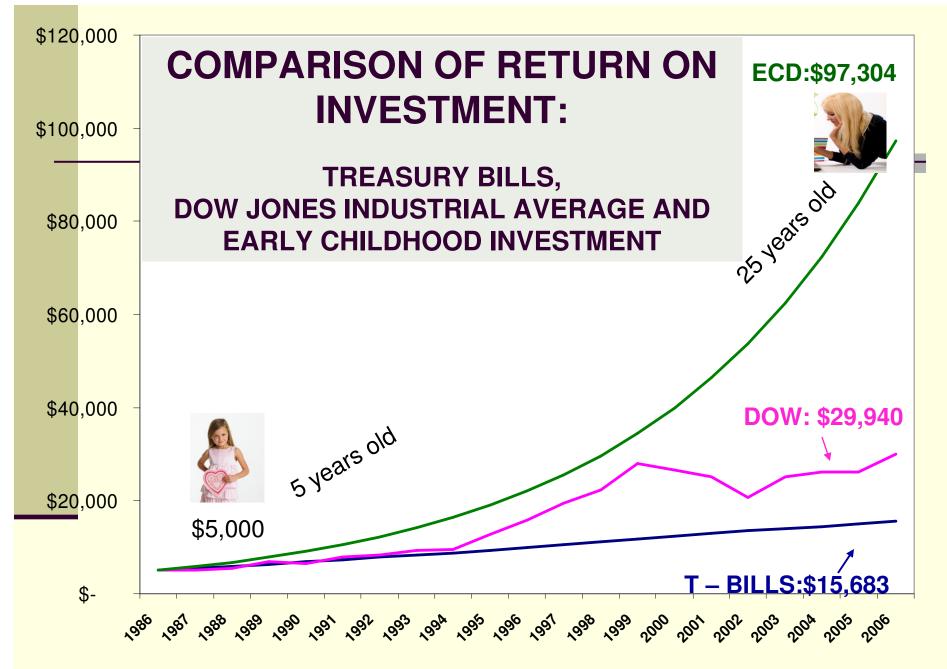




Montana's on the *Move* Investing in a World-class Education System



Education for Life
Investing Dollars
Innovation
Accountability
Building partnerships
Energy Independence



Sources: Treasury Bills (T-BILLS) – Federal Reserve Statistical Release; DOW (Dow Jones Industrial Average) – Dow Jones Indexes; Early Childhood Development (ECD) – Rolnick, Arthur, "Children of the Code" Compiled by Census and Economic Information Center, Montana Department of Commerce, <u>www.ceic.mt.gov</u>, (406) 841-2740, September 2007

Montana's on the *Move* Full-time Kindergarten – Good for kids & good for schools

By GAIL SCHONTZLER Chronicle Staff Writer 3/25/2008

"School Board trustees reacted favorably to the idea of expanding full-time kindergarten, from the current 26 percent to 85 percent of Bozeman kindergartners. Doing so would increase the elementary budget by \$400,000. Full-time kindergarten brings in more revenue than it costs because the schools already are paying for utilities, building maintenance and administrative overhead."

Montana's on the *Move* Study praises pension funding

By The Gazette State Bureau - December 19, 2007 HELENA - A national study released Tuesday ranks Montana as a "top performer" at improving the financial status of its public employee and teacher pension systems ...

PERS, TRS and ORP

One time Cash : \$175 Million On-going Employer & State Contribution: \$518.1 Million



"Promises with a Price," the Pew Charitable Trusts

Source: http://www.billingsgazette.net/articles/2007/12/19/news/state/43-pensionfund.txt

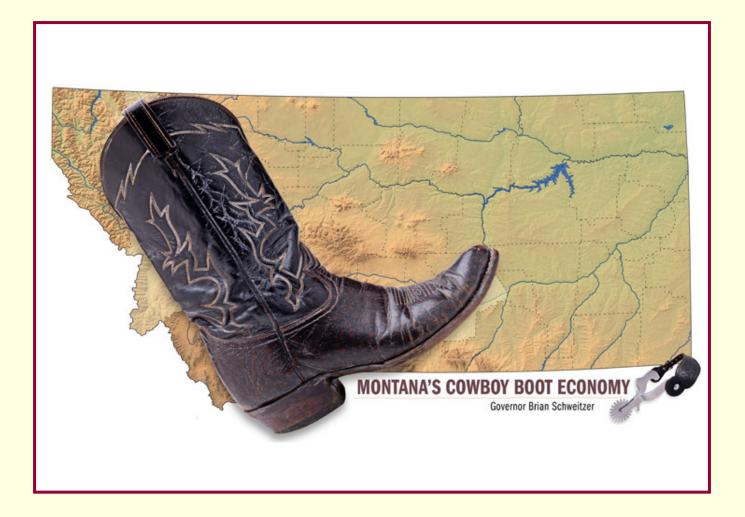
Montana's on the *Move Investing in Quality Educators*

Typical Teacher Scenario

- Recent UM graduate with avg. \$20k debt
- Math teacher in small town
- Average starting salary -- \$25,318*
- Increased school funding \$38.5 M for FY08 = \$3000/quality educator
- NEW -- Quality Educator Loan Forgiveness
 - \$12,000 for 4 years for qualifying teacher
- Retirement



Montana's on the *Move*



Montana's on the *Move* Changing Demographics 2007-2017

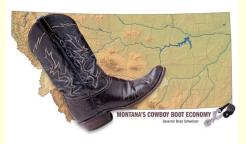
Future Challenge:

MT's population will grow by 6.6 %

- Less babies and more elders.
- High school graduates expected to decline by nearly 20 %
- Traditional college students --18 to 24 --projected to decline 19 %

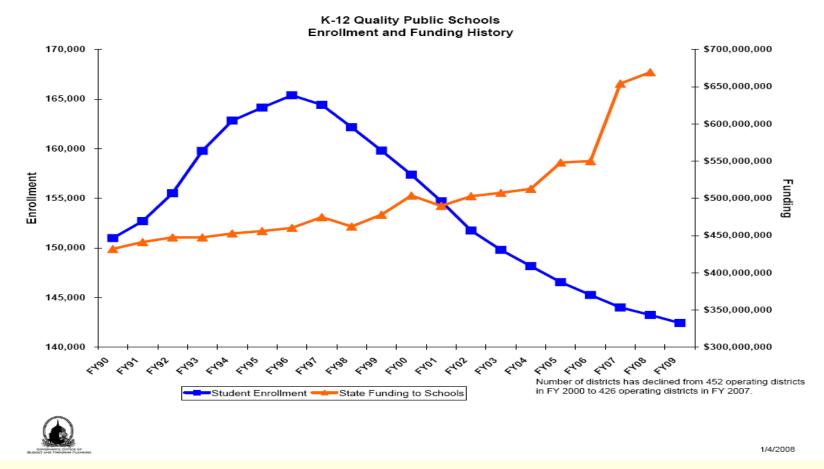
Today

- One in two MT HS students go on to a college after graduation.
- Less than one in five students get a 4 year degree from MUS in 4 years.



Source: U.S. Census Bureau OCHE

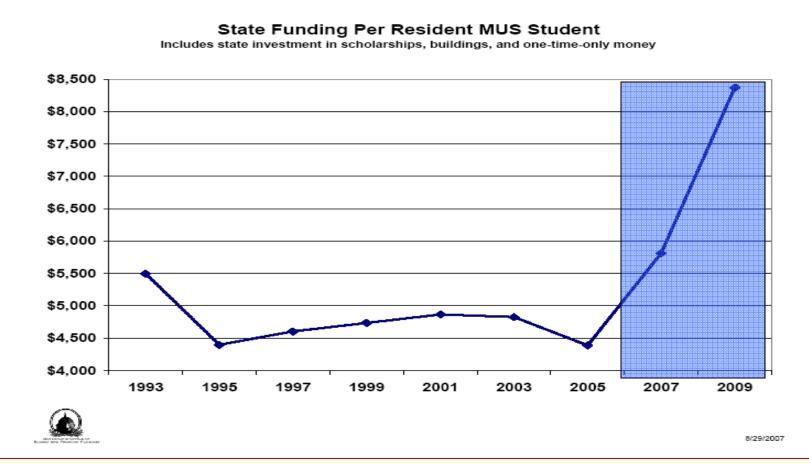
Montana's on the *Move* Declining enrollment today is tomorrow's workforce challenge



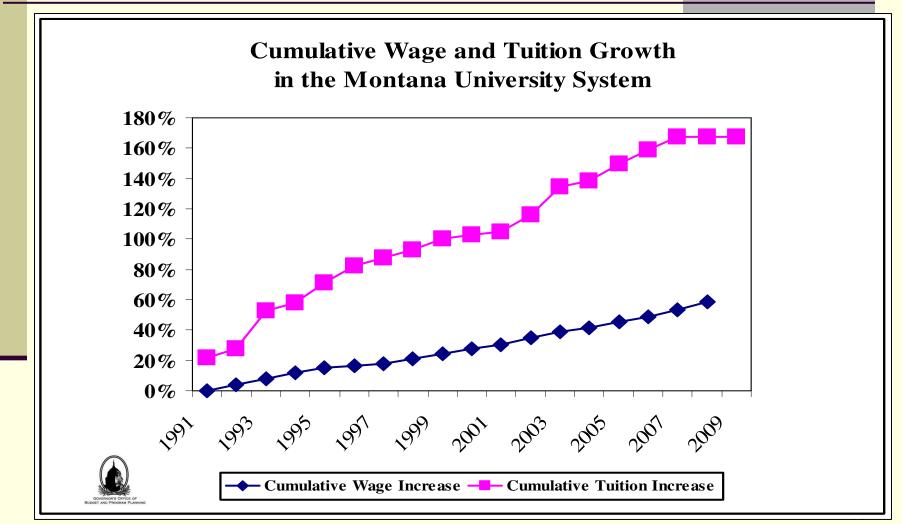
Governor Brian Schweitzer

12

Montana's on the *Move* Going to college matters



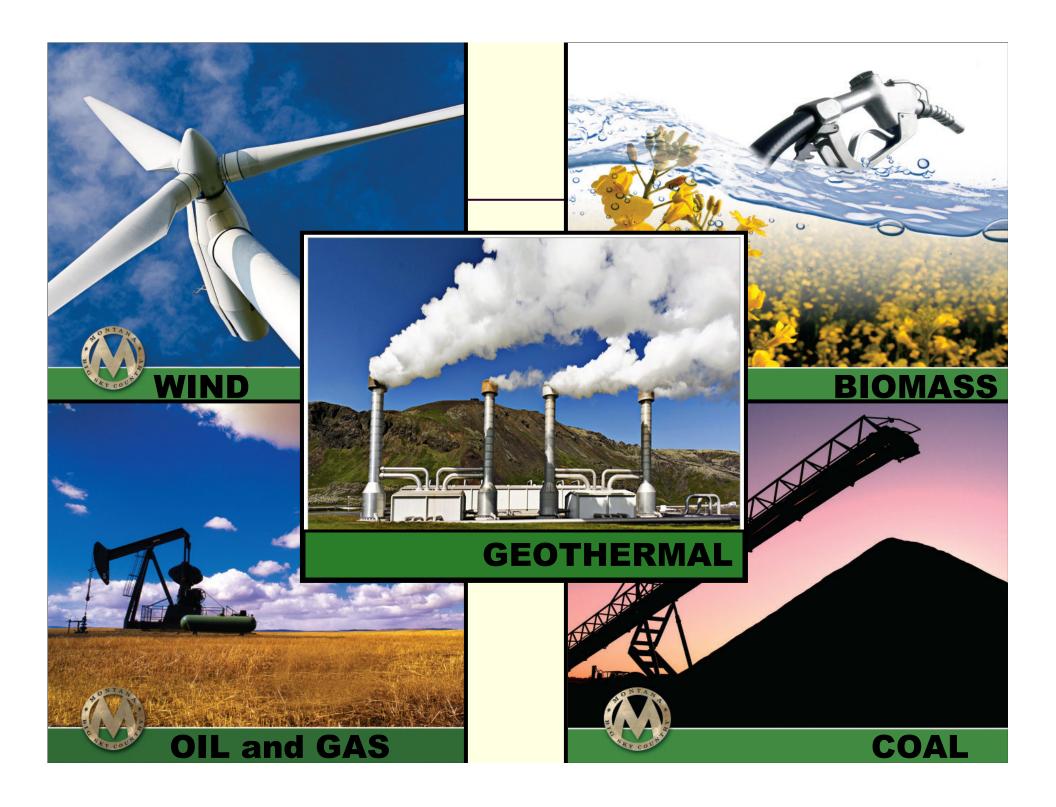
Montana's on the Move



Montana's on the *Move* Best and brightest Scholarship



More than 2000 scholarships awarded



1,000 Nautical Miles

-10-

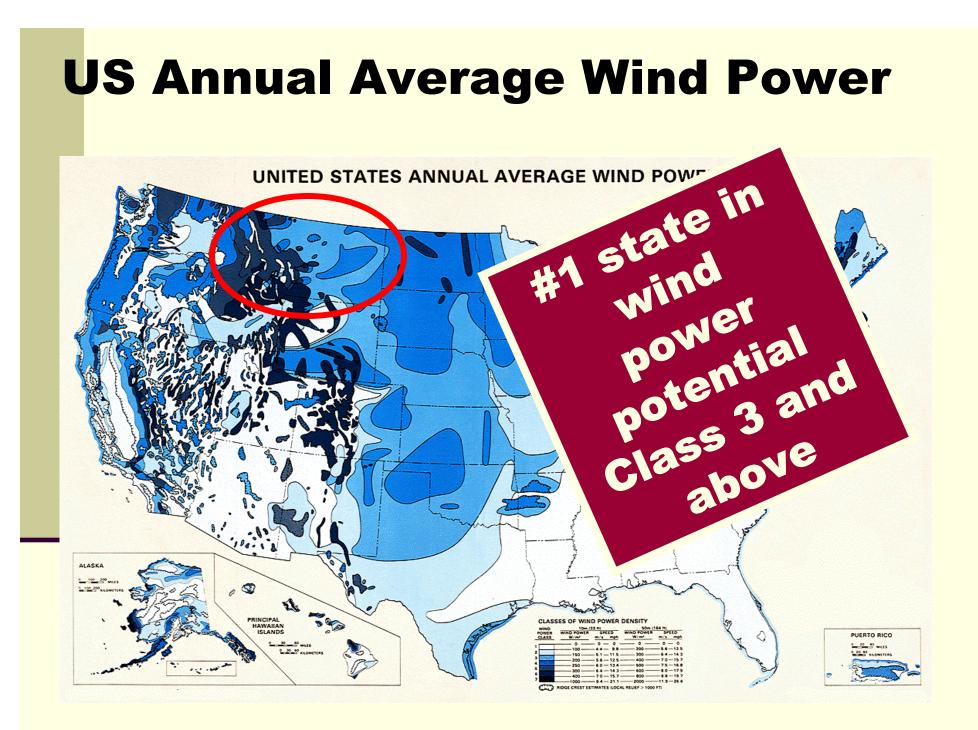




MONTANA IS WIND VIND COUNTRY

ROPING THE WIND FOR TODAY'S POWER AND TOMORROW'S ENERGY SOLUTION

YCO



Montana's Commitment to Wind Power Development

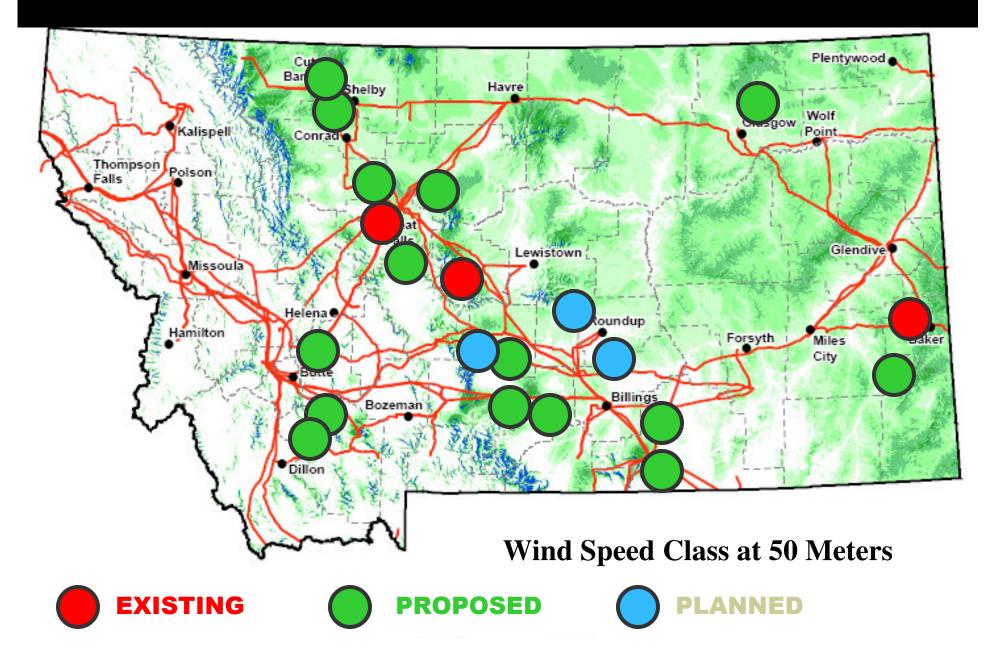


Montana adopted a state renewable energy portfolio standard in 2005 requiring 15% renewable power by 2015

Montana has seven (7) tax incentives for the development of wind power

 Signed HB 330 into law to allow Clean & Renewable Energy Bonds (CREBs) incentive for local & tribal government wind power

WIND FARM ACTIVITY



NONTANA IS BIO-FUELS COUNTRY

DEVELOPING BIOMASS FUELS FOR TOMORROW'S ENERGY

YCO



•16.5 M acres of crop land suitable for growing grain and/or seed crops for use in ethanol & bio-diesel
•19 M acres of non-reserved forest land available for ethanol from bio-mass



Montana's on the *Move* Education Employment & Economic Development

K-12, Higher Ed & Industry Partnerships

State Workforce Investment Board (SWIB)

- Apprenticeship Committee
- Economic Development Committee
- Health Care Ad-hoc Committee





• Montana has two state level production incentives:

(i) reduction in state motor fuels tax collected on ethanol blends at specially marked pumps (ii) 30 cent per gallon incentive to the ethanol producer using Montana agricultural products



• 10% ethanol blending requirement when in state production reaches 40 million gallons/year

Bio-diesel tax credits on production & fueling facilities

MONTANA MEANS BUSINESS

MONTANA IS GEOCHERMAL COUNTRY

TAPPING A NATURAL HEAT SOURCE FOR TOMORROW'S POLLUTION-FREE ENERGY

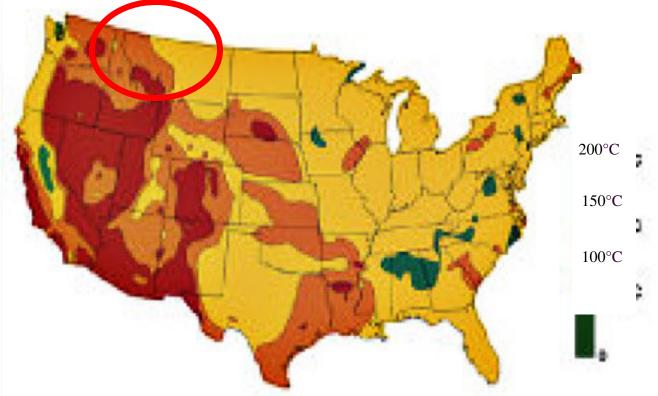
Hottest Known Geothermal Regions

Geothermal Power Plants

TECHNOLOGY TODAY

While large scale power plants use water that is 300°F and higher, new technologies generate electricity at temperatures as low as 160°F. These turbines are suitable for distributed generation projects, where electricity is used on site rather than exported to the grid. Power plants are modular, with sizes as small as 250 kw.

New plants coming on-line this year in Idaho, Nevada and California.





MONTANA IS GEOTHERMAL COUNTRY: TAPPING A NATURAL HEAT SOURCE FOR TOMORROW'S POLLUTION-FREE ENERGY

MONTANA IS COAL COUNTRY

Turning our coal advantage into jobs & growth

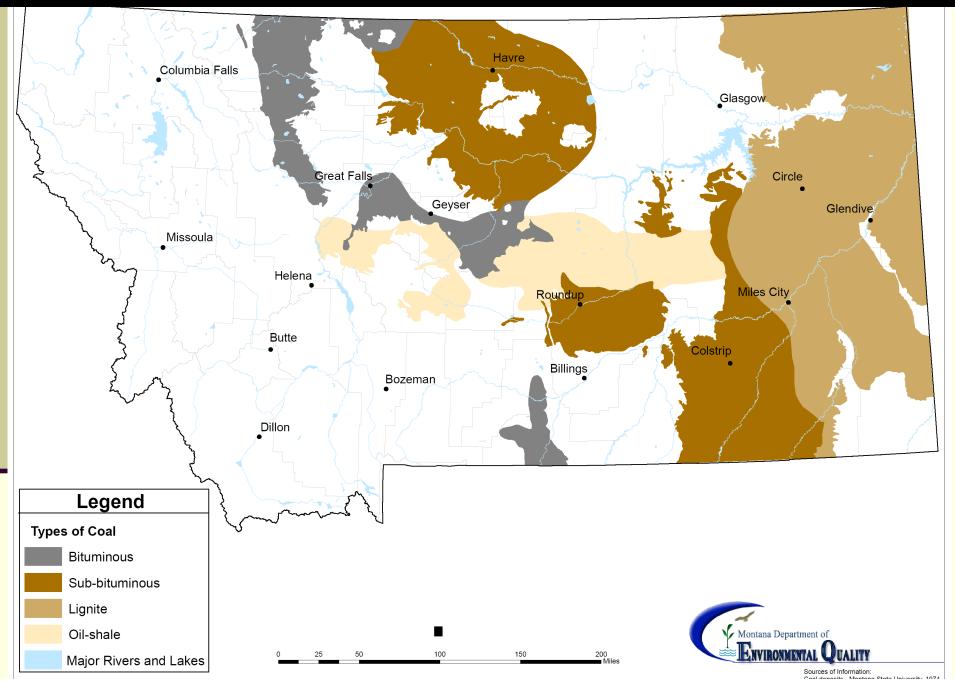
Montana's on the *Move Montana Coal Reserves*



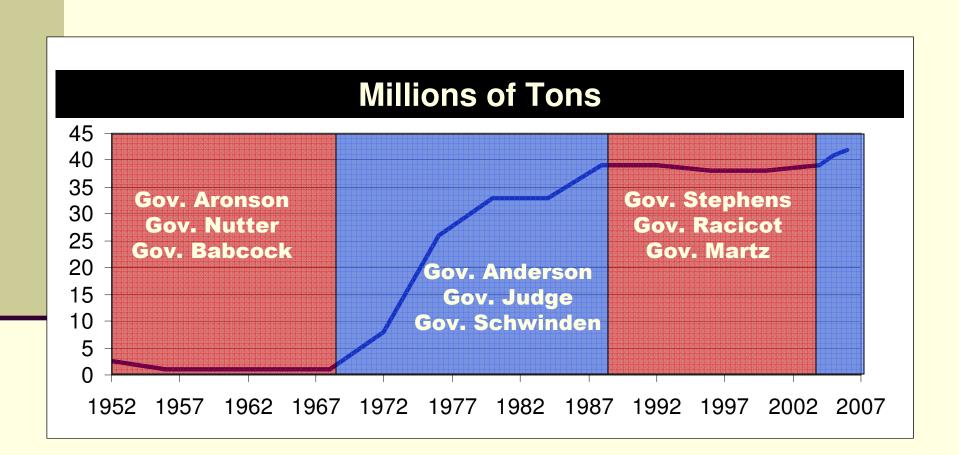
28% Nation's Coal

8% World's Coal

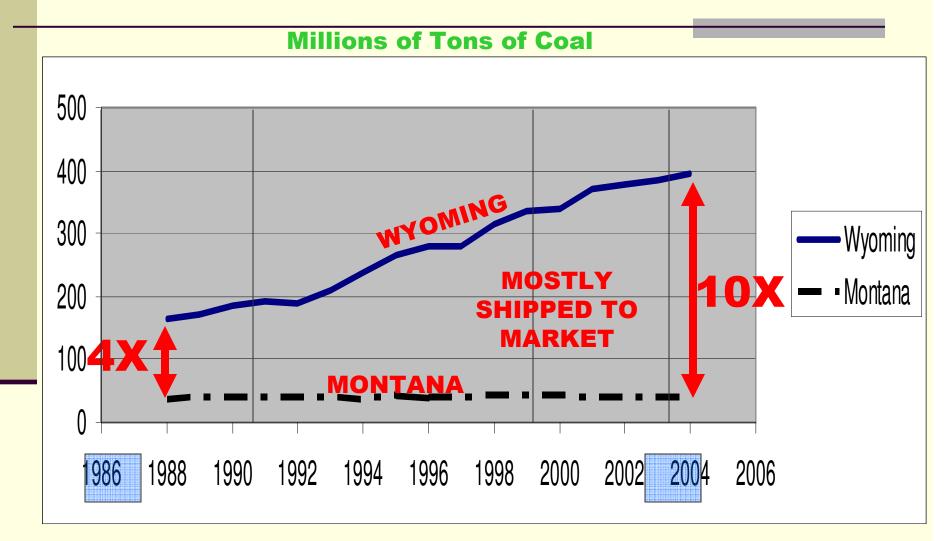
Montana Coal Deposits



Montana Historic Coal Production 1952-2007



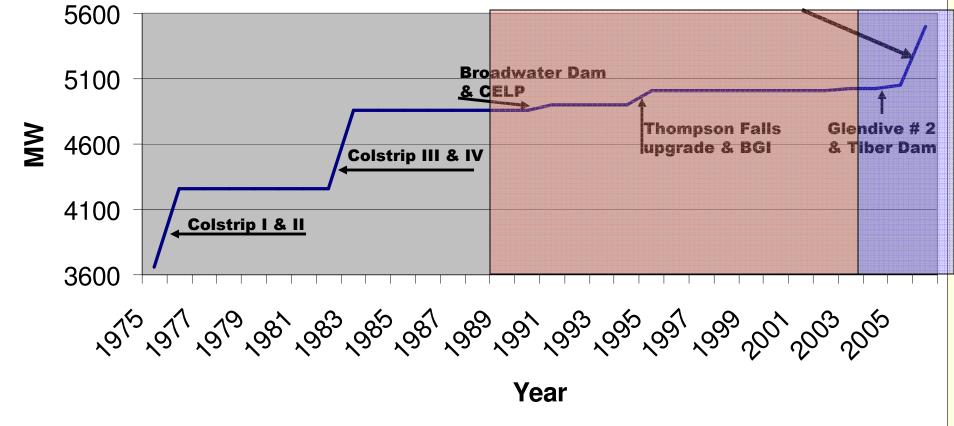
Coal Production: Montana/Wyoming 1988-2004



Source: US Department of Energy

Montana Generation Capacity (MW)

Centennial, Basin Creek, Judith Gap & Horseshoe Bend



OIL AND GAS COUNTRY

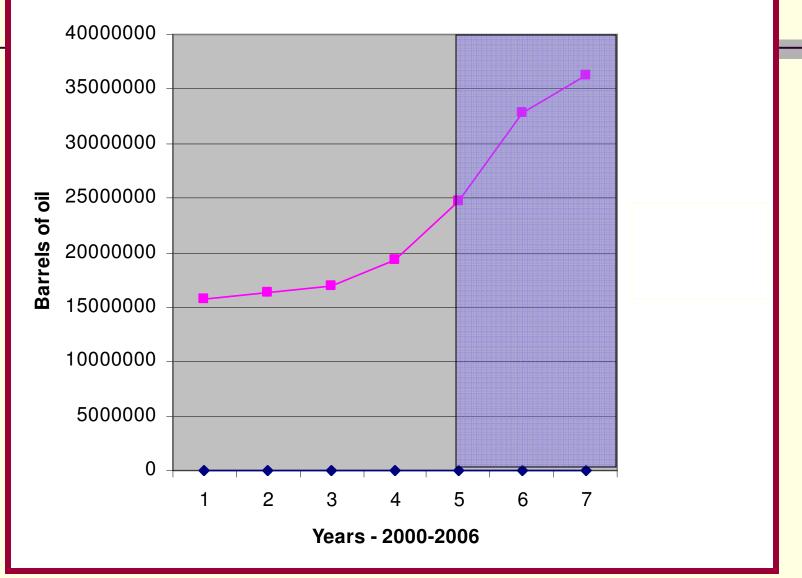
Growth in Montana Oil Production

Oil Production in Montana

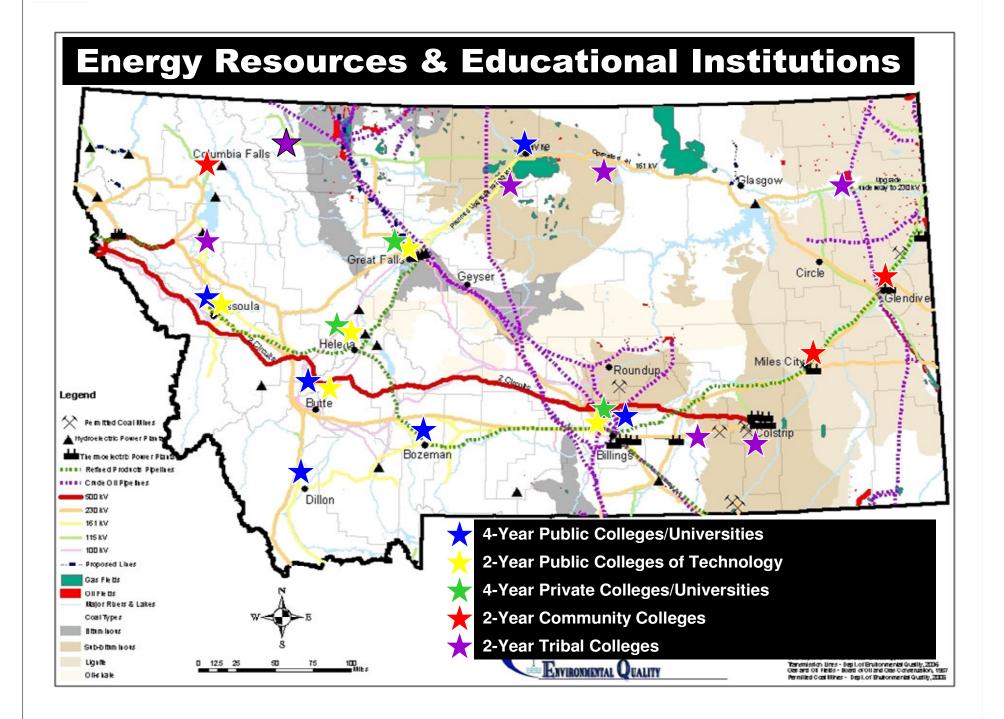
Year	Barrels/Year	Growth
2000	15,800,000	
2001	16,300,000	3.2%
2002	17,000,000	4.3%
2003	19,400,000	14.1%
2004	24,700,000	27.3%
2005	32,800,000	32.8%
2006	<u>36,200,000</u>	10.4%

Alberta Oil Production = 700 Million bbls/yr Over 20 x Montana's Production

Montana Oil Production



MONTANA **GREEN POWER CAN SERVE** THE PACIFIC NW, THE SOUTHWEST AND CALIFORNIA



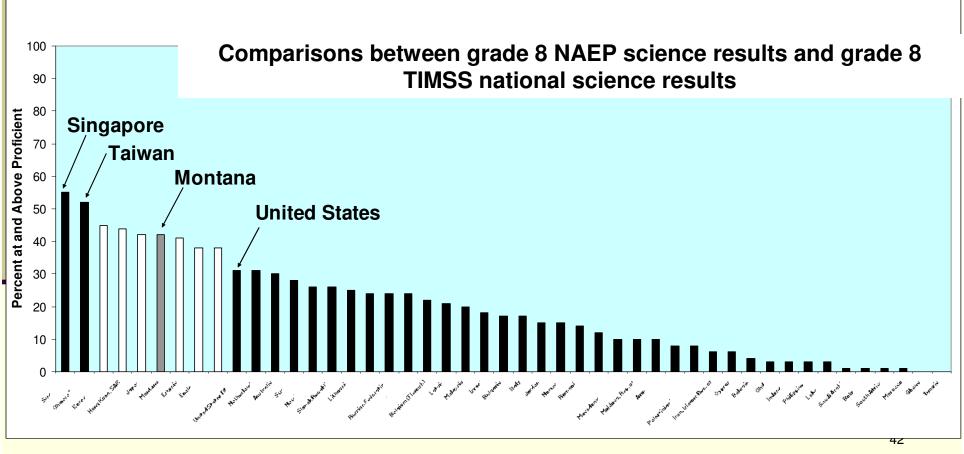
Montana's on the *Move* 21St Century Skills: Work Ready = College Ready





Montana's on the *Move* Competitiveness

Governor and First Lady Math and Science Initiative



Montana's on the Move

Homework Assignments

School Readiness

Full time kindergarten

Students Ready for College and Work

- Increasing Graduation Rates
- Dual-Credit/Dual Enrollment
 - Global Competitiveness (Math & Science)

Coordinate a Technology Network

Distance Education

Close Tuition and Salary Gap

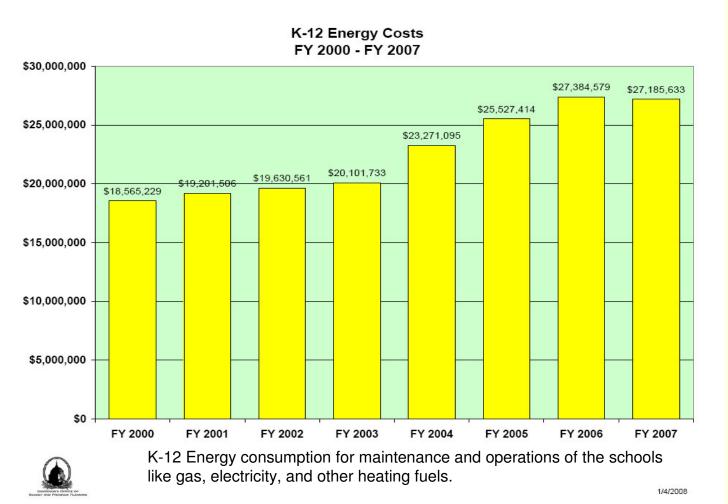
Access Affordability Transferability

Montana's on the *Move* 20x10

State agencies to reduce energy consumption by 20% by the year 2010



Montana's on the *Move* K-12 Energy Costs



Governor Brian Schweitzer

45

Montana's on the *Move* Transformational Generation



Montana's on the *Move* Quality K-12 Education

