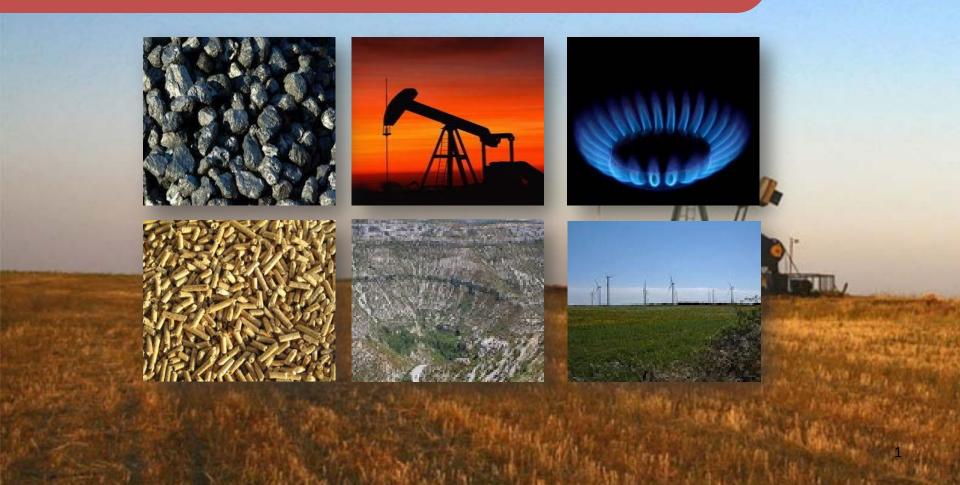
Natural Resources & Energy Outlook:

Coal, Oil Natural Gas (Fossil Fuels), Renewables, Minerals, Alternative
By Terry Johnson

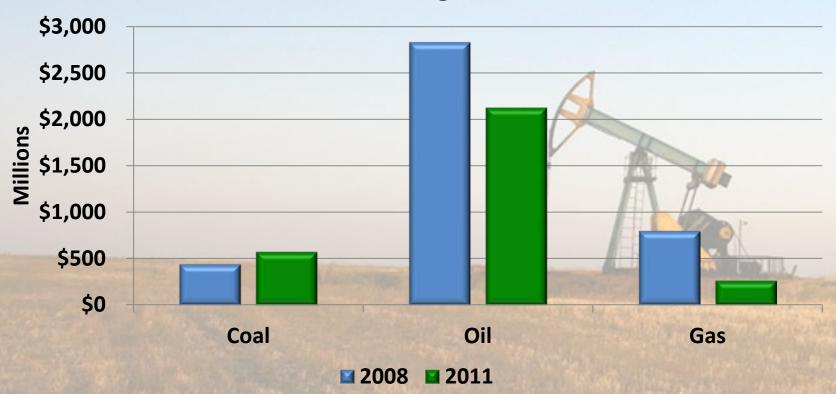


Presentation Outline

- Fossil Fuel Focus
 - Coal
 - Oil
 - Natural Gas
- Renewables, Minerals, Alternatives
- What Changed? 2008 to 2011
- Energy Outlook
- What Does This All Mean?

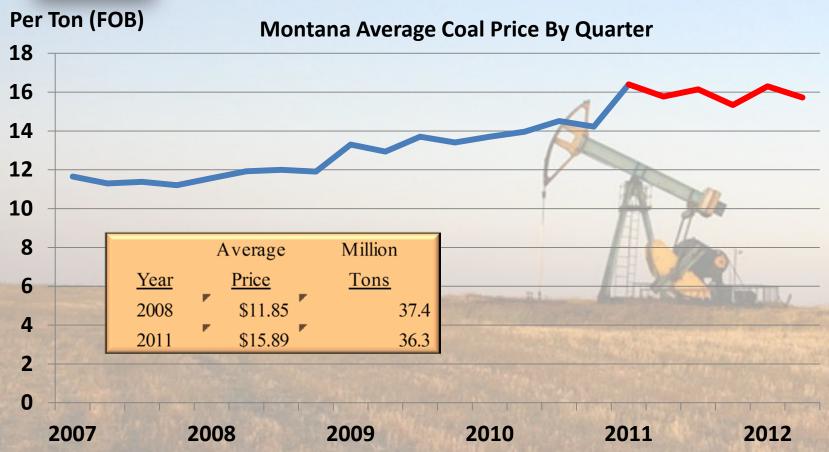
Montana's Fossil Fuel Sources

Coal, Oil, Natural Gas
Value of Production Change - 2008 versus 2011



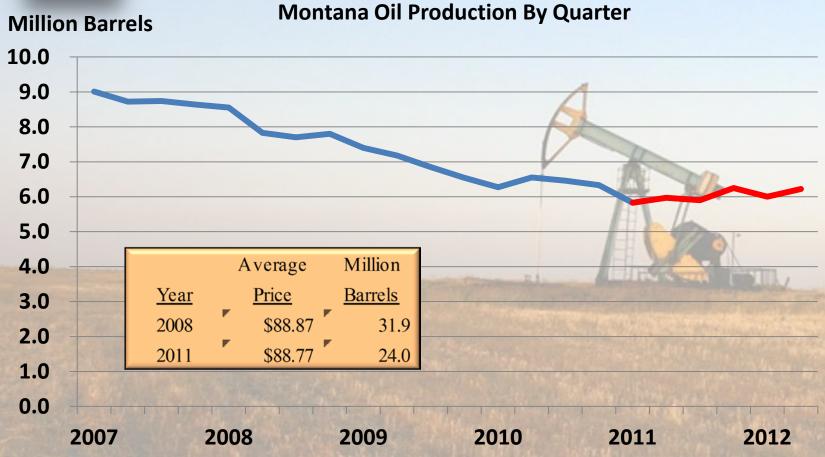


Coal Production Value Increase: What Happened?



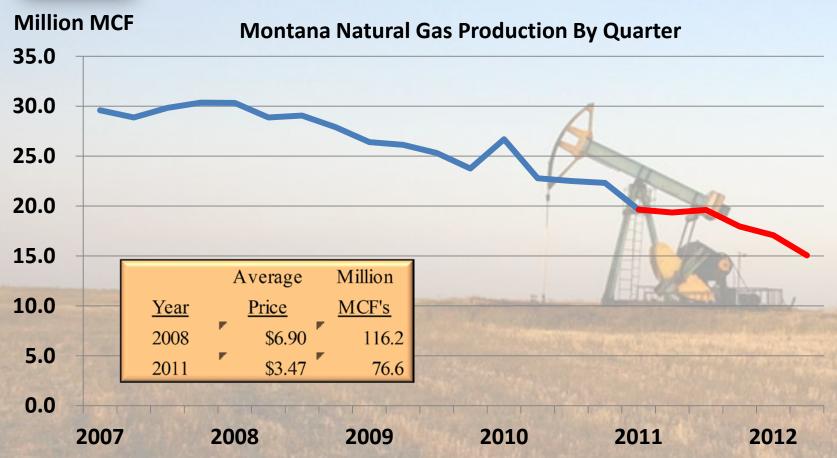


Oil Production Value Decline: What Happened?





Gas Production Value Decline: What Happened?



Reasons for Production Value Change – 2008 to 2011

Coal

- Price increases due to world demand
- International energy policies
- Oil



- Stable prices (on average)
- Slow implementation of new technology
- Natural Gas

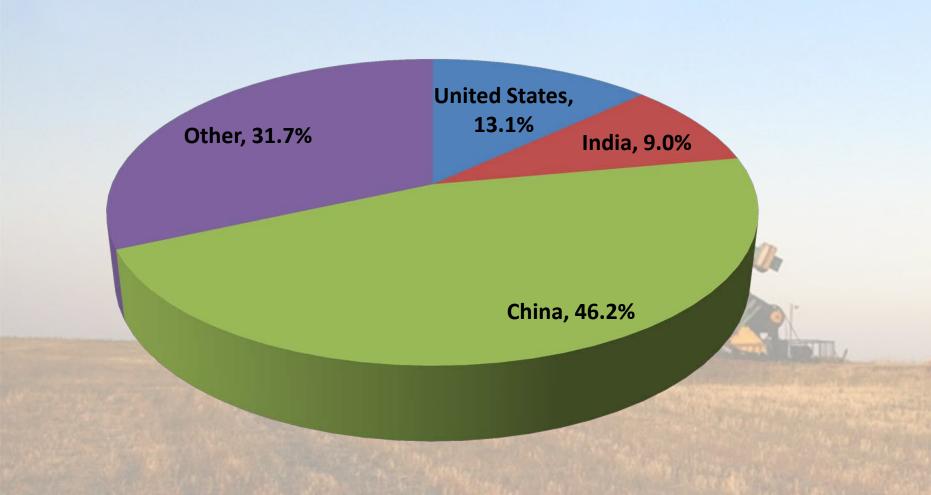


- Weak demand, over supply
- Transportation

Montana's Energy Outlook Coal --- 👄

- Why?
 - International Demand
 - International Natural Gas Price vs. Coal Price
- What to monitor
 - Federal Environmental Rules
 - Construction of Port Facilities

International Coal Consumption, 2010

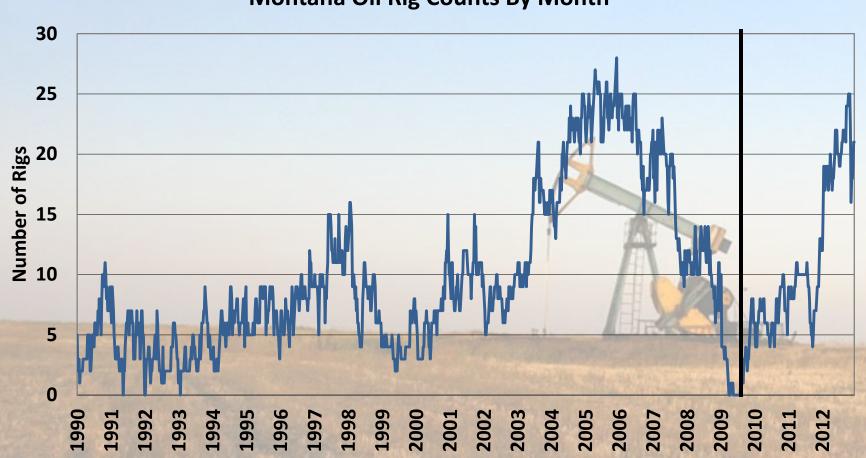


Montana's Energy Outlook Oil ----

- Why?
 - Rig Count Improvement
 - Economic Recovery
 - U.S. Energy Independence
- What to monitor
 - Environmental Issues With "Fracking"
 - Transportation Issues
 - Federal & State Taxation Policies

Montana Oil Rig Count

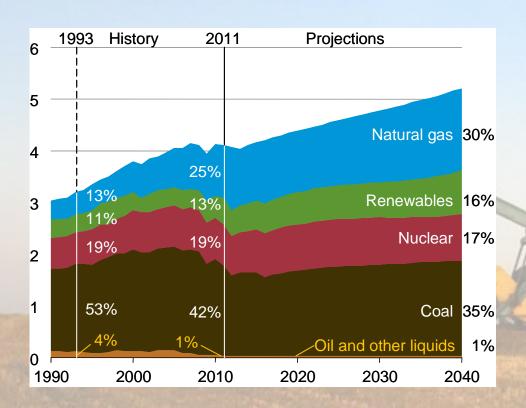
Montana Oil Rig Counts By Month



Montana's Energy Outlook Natural Gas ---

- Why ?
 - Electricity Generation
 - Environmental Issues with Coal
- What to monitor
 - Environmental Issues With "Fracking"
 - Federal & State Taxation Policies

U.S. Electricity Generation by Fuel Type



What Does This All Mean?

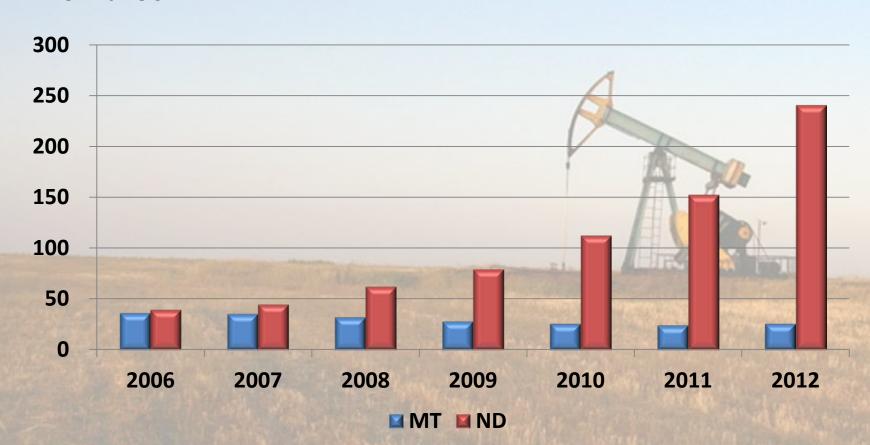
- Economic Growth
 - Eastern Montana
 - Other Areas (Billings for example)
- Enhanced Governmental Revenue
 - Natural Resource Taxes
 - Income Taxes
 - Consumption Taxes
- Governmental Service Pressures
 - Education
 - Public Safety
 - Infrastructure (State and Local)



Oil Production Comparison Montana vs. North Dakota

Annual Oil Production

Million Barrels



Questions

- Some Interesting Energy Facts
 - Montana has the highest estimated recoverable coal reserves in U.S.
 - Wyoming produced the most coal in U.S. (2011) over 40%
 - U.S. was 3rd largest oil producer in 2011 Saudi Arabia and Russia were 1st and 2nd, respectively
 - North Dakota was second largest oil producer in U.S. (2012)
 - U.S. natural gas production was highest level ever in 2011
 - U.S. natural gas use for electricity generation increased
 188% from 1988 to 2011