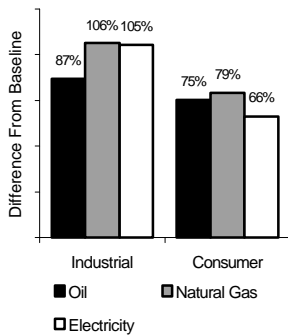




Global Warming: The High Cost of the Kyoto Protocol Impact on New Mexico

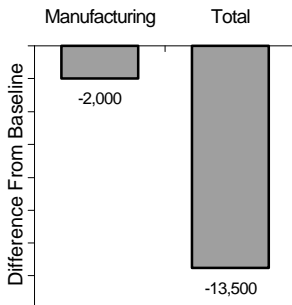
Energy Prices

New Mexico manufacturers would see natural gas prices approximately double.



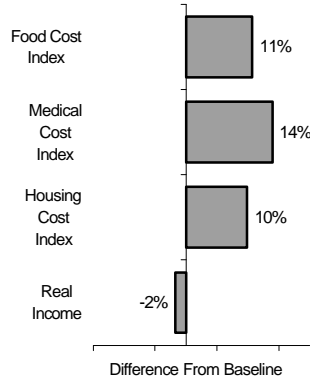
Employment

New Mexico would lose 2000 manufacturing jobs.



Consumer Income and Prices

The cost of housing, medical care, and food would rise while incomes would fall.



In December 1997, the Clinton Administration agreed to the Kyoto Protocol, an international treaty that would legally bind industrialized countries to reduce their greenhouse gas emissions. US emissions would be limited to 7% below 1990 levels by late next decade. Meeting this goal would be a daunting task, as carbon emissions from the energy sector are expected to exceed the Kyoto goal by more than 37%. WEFA estimates that to achieve the Kyoto goal would require a carbon permit fee of \$265 per metric ton added to energy prices, resulting in:

- **A hike in gasoline prices of nearly 65 cents a gallon**
- **A doubling of electricity and energy prices for consumers and businesses**

The Kyoto Protocol Would Slow Economic Growth and Cost US Jobs

The Kyoto Protocol is supposed to be an international agreement, but 134 of 160 negotiating nations said that the US and other industrialized countries should bear the entire burden. China and India were particularly emphatic, saying that they will never participate in a global effort to reduce greenhouse gas emissions. If key developing nations continue to exempt themselves from the Kyoto Protocol, WEFA estimates that by 2010 the US would:

- **Lose 2.4 million jobs**
- **See a 3.2% drop in U.S. annual output (GDP)**
- **Lose \$300 billion annually, or more than total expenditures on elementary and secondary education**

New Mexico Would Lose 13,500 Jobs and \$377 Million in Tax Revenue

While developing nations would get a free ride under the Kyoto Protocol, state and local economies would not. Implementing the agreement would raise energy costs and slow economic growth. In 2010, WEFA estimates that New Mexico would:

- **Lose 13,500 jobs, including 2,000 manufacturing jobs**
- **See an unemployment rate as high as 8.7%**
- **Lose \$377 million in tax revenue, reducing the state's ability to provide social services when the need for such services would be increasing**

The Kyoto Protocol Is Not the Only Option

WEFA's analysis shows severe economic consequences for US consumers if the Kyoto Protocol is implemented. Only near-term catastrophic global climate change would justify imposing these costs on US businesses and consumers. As global warming may be gradual and largely due to natural forces, a better strategy to alleviate this potential global threat may be the use of longer-term opportunities, such as:

- **Expanding voluntary efforts to limit greenhouse gas emissions**
- **Supporting scientific research and educational programs on climate**
- **Investing in the development and deployment of new technologies**

Business Impacts: New Mexico

Two-thousand manufacturing jobs would be lost by 2010, as New Mexico companies become less competitive in the international markets.

New Mexico's manufacturing sector would be harmed more than the US average. Manufacturing employment would decline by 3.7% (2,000 jobs) in New Mexico by 2010 relative to the baseline forecast, while the national average would fall 3.3%. The competitive position of manufacturers located in the state would be eroded due to rising costs, especially relative to non-participating developing countries. Industrial electricity prices would rise 105% by 2010 relative to the baseline (i.e., the price level without an emissions-reduction policy). Fortunately, New Mexico has a low concentration of capital goods producers, which would see large declines in exports.

Industrial natural gas prices would rise by 106% in 2010 versus the baseline.

Energy Prices

Sharp increases in fuel and electricity prices would be felt across the nation. Industrial firms in New Mexico would be burdened in the global competition for markets with price increases of 106% for delivered natural gas and 105% for electricity by 2010 versus baseline levels.

Real gross state product would fall by 2.9% in 2010 relative to the baseline.

Output

Imposition of a carbon permit fee would significantly impact the overall level of output as well as the composition of output in the state. Real gross state product would fall 2.9% below the baseline in 2010. Hardest hit among the industries in the state would be manufacturing, as electrical machinery producers experience increased cost of power and move jobs from the state. Real output in the manufacturing sector would fall by 3.7% in 2010. Manufacturing losses would cause producers to reduce their purchases of labor and purchased inputs of services. Sharply higher energy prices would shift New Mexico toward an even greater reliance on service industries.

New Mexico would lose 13,500 jobs by 2010 relative to the baseline, with manufacturing bearing the brunt of losses.

Employment

Total employment is projected to fall 13,500 jobs below the baseline in 2010. The decline would be largest in trade jobs. Within manufacturing, the largest percentage declines in durable categories include electrical machinery. Two non-durable categories that would be severely impacted are foods and printing. The largest absolute decline outside of trade would occur in services.

Real wages and salaries in manufacturing would decline by 2.5% in 2010 versus the baseline projection.

Wages & Salaries

Wages and salaries would fall under the imposition of a carbon permit fee. Rising costs must be offset by lower real wages as economies attempt to retain their competitive position. In New Mexico, real manufacturing wages would decline by 2.5% in 2010 relative to the baseline. Real private non-manufacturing wages would fall 1.4% below the baseline forecast.

Consumer Impacts: New Mexico

Limiting greenhouse gas emissions would cost each state resident \$181 of their real annual disposable income by 2010.

If the Kyoto Protocol were implemented, consumers would be squeezed by slower increases in income and the rising costs of basic necessities and other goods and services. Due to the severe loss of employment under the carbon abatement programs, real personal income in New Mexico would decline. Meanwhile the cost of energy to consumers would increase dramatically. Prices of home heating oil, natural gas, and electricity would rise along with the costs of non-energy goods and services such as medical care, food, and housing. The cumulative result would be a continued erosion of consumers' purchasing power.

Real personal income would fall by 1.8% compared to the baseline in 2010.

Income

Real income growth would slow along with the loss of jobs. Wages in manufacturing are higher than in most nonmanufacturing industries and the accelerated shift of economic activity and jobs towards service industries would further reduce income growth. By 2010, relative to the baseline forecast real disposable income per capita would decline by \$181, and real total personal income would decline by 1.8%.

Residential energy prices would increase by at least 66% in New Mexico relative to the baseline.

Energy Prices

Residential consumers would face a substantially higher energy bill under the proposed measure. Residential prices for energy would rise significantly above baseline levels in 2010: natural gas (79%), electricity (66%) and home heating oil (75%). The price of motor gasoline would also increase 47% relative to the baseline.

Housing prices would be 10% higher by 2010 relative to the baseline.

Housing

Housing prices are also projected to increase faster under the carbon abatement scenario. Housing prices would increase by 10% more than they would in the baseline projection. In New Mexico, housing prices would escalate at a slower rate than the national average reflecting the out-migration projected for the state due to the more severe loss of employment opportunities.

Medical costs would rise by 14% relative to the baseline in 2010.

Medical Expense

Under the carbon abatement scenario, a comparable set of medical services would cost 14% more relative to the baseline projection. Higher medical care prices would lower purchases and the health of the average consumer would suffer as a result.

Food costs would be 11% higher in 2010 than in the baseline.

Food

Under the carbon limit scenario, food prices would be 11% higher than the baseline in 2010. Because food is a necessity, there would be little decline in the amount purchased per household. Therefore, most households would bear the total increase in food costs.

Government Impacts: New Mexico

New Mexico tax revenues would be reduced by \$377 million and the unemployment rate would approach 8.7% in 2010.

New Mexico would face a possibly significant decline in tax revenue associated with the imposition of policies aimed at meeting the Kyoto Protocol target. Tax revenues could decline 8.4% below baseline projections in 2010. This has significant implications for public policy, which would be exacerbated by the possibility of increased unemployment. Specifically, New Mexico's unemployment rate is expected to approach 8.7% in 2010. With increases in unemployment and decreases in revenue, the state would be confronted with a daunting problem: how to provide support for its unemployed workers.

Gross State Product

Real output in New Mexico would fall by \$1.4 billion relative to the baseline in 2010.

Adopting carbon emission limits would put New Mexico at risk of losing \$1.4 billion real dollars of output in 2010 relative to the baseline projection. In percentage terms, the state stands to lose approximately 2.9% of its potential output. As economic growth slows, the services sector would suffer the most severe decline in real output, while the manufacturing sector also would lose \$200 million in real output in 2010 versus the baseline.

Tax Revenues

Tax revenues would fall by 8.4% in 2010.

As a result of the imposition of a global agreement to limit carbon emissions, real tax revenues in New Mexico would fall 8.4% below the baseline projection in 2010. As a percentage of gross state product, baseline tax revenues would be 9.2%. This assumes no changes in tax policy in New Mexico. If taxes were raised to offset the projected loss of tax revenues, its competitiveness relative to other states would decline and further reduce economic activity in the state.

Unemployment and Net Migration

The unemployment rate would rise to 8.7% in the carbon abatement scenario in 2010.

As a consequence of implementing the Kyoto Protocol, New Mexico is projected to lose more jobs on a percentage basis as the US average. Out migration would increase because the state's loss of employment is more than the national average. This results in an increase in the number of unemployed workers. For New Mexico, the unemployment rate is expected to decrease from the 1996 level of 8.0% to 7.3% in the baseline projection in 2010. If the Kyoto Protocol were fully implemented, the unemployment rate would reach 8.7% in 2010.