

# WebMemo



Published by The Heritage Foundation

No. 1930-AZ  
May 20, 2008

## How Arizona Would Be Affected by the Lieberman–Warner Climate Change Legislation

*William W. Beach, Ben Lieberman, David Kreutzer, Ph.D., and Nicolas D. Loris*

Workers and families in the state of Arizona may be wondering how climate change legislation before Congress would affect their income, their jobs, and the cost of energy. Members of Congress are considering a number of bills designed to address climate change. Chief among them is S. 2191, America's Climate Security Act of 2007, introduced by Senators Joseph Lieberman (I–CT) and John Warner (R–VA).<sup>1</sup>

The Lieberman–Warner legislation promises extraordinary perils for the American economy, should it become law, all for very little change in global temperature—perhaps even smaller than the .07 of a degree Celsius drop in temperature that many scientists expected from worldwide compliance with the Kyoto climate change accords. S. 2191 imposes strict upper limits on the emission of six greenhouse gases with the primary emphasis on carbon dioxide (CO<sub>2</sub>). The mechanism for capping these emissions requires emitters to acquire federally created permits (called allowances) for each ton emitted.

Arbitrary restrictions predicated on multiple untested and undeveloped technologies will lead to severe restrictions on energy use and large increases in energy costs. In addition to the direct impact on consumers' budgets, these higher energy costs would spread through the economy, injecting unnecessary inefficiencies at virtually every stage of production and consumption.

Implementing S. 2191 would be costly in Arizona, even given the most generous assumptions. Notable costs are listed in Table 1.

### Estimated Economic Impact of S. 2191 in Arizona

Year	Gross State Product Loss (\$millions)	Non-Farm Employment Loss	Manufacturing Jobs Lost	Personal Income Lost (\$millions)
2012	613.46	-2,574	-174	-369.75
2020	-1,248.14	-1,069	-6,488	-724.54
2025	-2,275.30	-10,537	-15,660	-1,797.96
2030	-1,964.15	-6,817	-26,324	-2,267.85

Table 1 • WM 1930-AZ [heritage.org](http://heritage.org)

Consumers would be hard hit. Table 2 shows the expected increases in retail energy prices (adjusted to 2006 dollars to eliminate the impact of inflation) in 2025 for Arizona. Between 2012, when the restrictions first apply, and 2025, the prices of electricity, natural gas, and gasoline could rise by nearly 20 percent nationally when compared to prices in a world without S. 2191.

This paper, in its entirety, can be found at:  
[www.heritage.org/Research/EnergyandEnvironment/wm1930-AZ.cfm](http://www.heritage.org/Research/EnergyandEnvironment/wm1930-AZ.cfm)

Produced by the Center for Data Analysis

Published by The Heritage Foundation  
214 Massachusetts Avenue, NE  
Washington, DC 20002-4999  
(202) 546-4400 • [heritage.org](http://heritage.org)

Nothing written here is to be construed as necessarily reflecting the views of The Heritage Foundation or as an attempt to aid or hinder the passage of any bill before Congress.

**Changes in Household Energy Prices in Arizona Due to S. 2191**

	Current Cost	2025 with Current Law in Place	2025 with Lieberman-Warner in Place	Dollar Difference
Electricity	\$1,245.14	\$1,772	\$2,193	\$421
Natural Gas	\$540.54	\$761	\$844	\$82
Gasoline	\$1,378	\$1,359	\$1,633	\$274

**Note:** The current annual cost of natural gas is based on consumption and prices as of 2006, the most recent data available. The annual cost of gasoline is based on the average price of regular unleaded in each state on May 20, 2008.

Table 2 • W/M 1930-AZ  [heritage.org](http://heritage.org)

In addition to taking a bite out of consumers' pocketbooks, the high energy prices throw a monkey wrench into the production side of the economy. Contrary to the claims of an economic boost from "green" investment and "green-collar" job creation, S. 2191 reduces economic growth, gross domestic product (GDP), and employment.

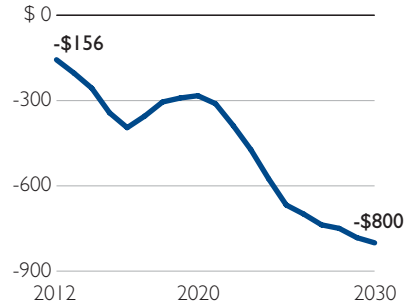
—William W. Beach is Director of the Center for Data Analysis; David W. Kreutzer, Ph.D., is Senior Policy Analyst for Energy Economics and Climate Change in the Center for Data Analysis; Ben Lieberman is Senior Policy Analyst in Energy and the Environment in the Thomas A. Roe Institute for Economic Policy Studies; and Nicolas D. Loris is a Research Assistant in the Roe Institute at The Heritage Foundation.

- To learn more about the economic effects of the Lieberman-Warner legislation, see "The Economic Costs of the Lieberman-Warner Climate Change Legislation." *CDA Report* published on May 12, 2008, and available at [www.heritage.org/Research/EnergyandEnvironment/cda08-02.cfm](http://www.heritage.org/Research/EnergyandEnvironment/cda08-02.cfm). The authors gratefully acknowledge the work of Dr. Shanea Watkins in preparing the maps used in this briefing memo.

# How Lieberman-Warner Would Affect Arizona

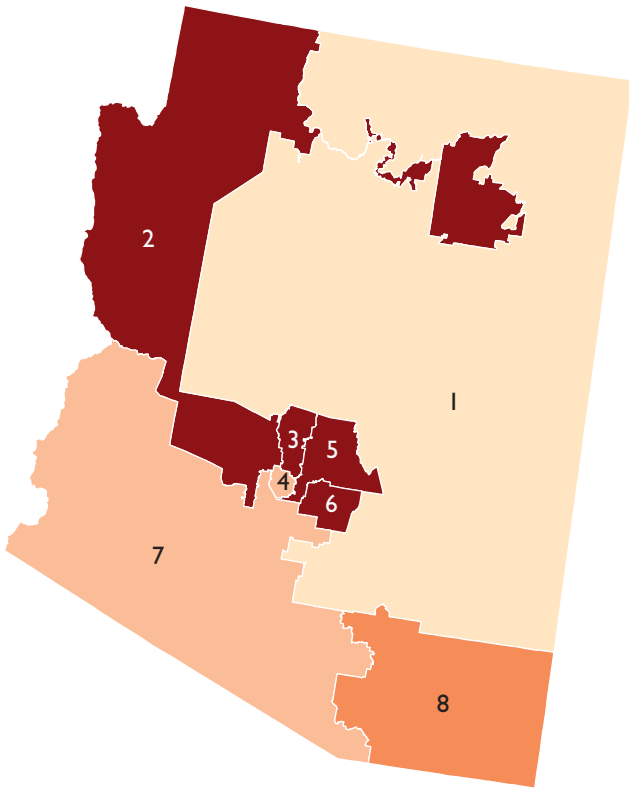
## Change in Personal Income

Statewide per household, adjusted for inflation, 2012-2030



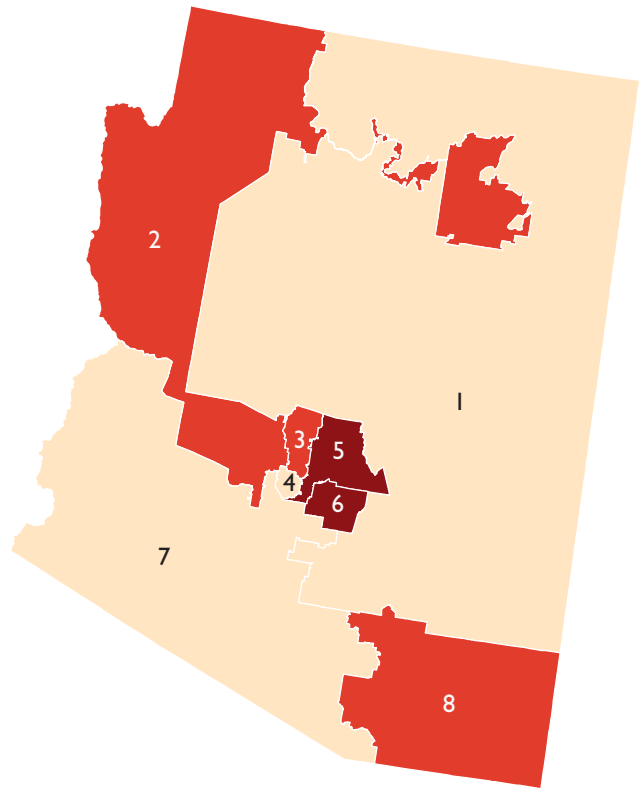
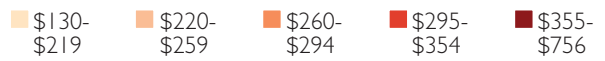
### By Congressional District

#### Non-Farm Jobs Lost in 2025



State Total: 10,537

#### Gross State Product Lost in 2025 (in Millions)



State Total: \$2.3 billion

Source: Heritage Foundation calculations using Global Insight's U.S. Macro Model.