

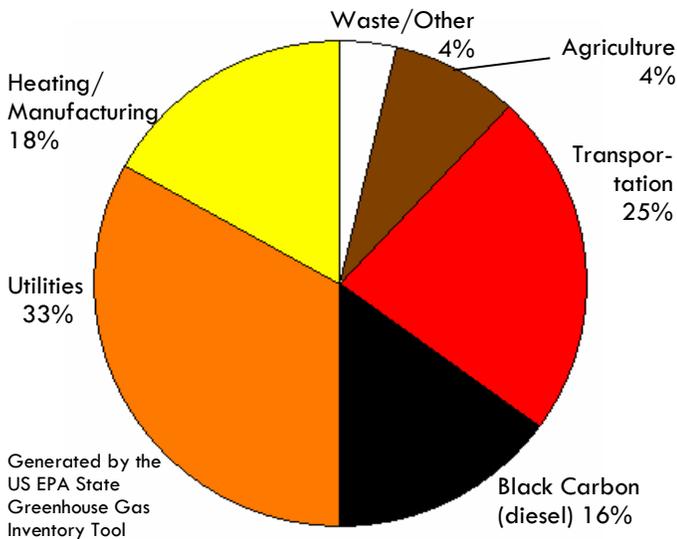


Global Warming Pollution in Tennessee



Great Smoky Mountains National Park

Pollution By Sector



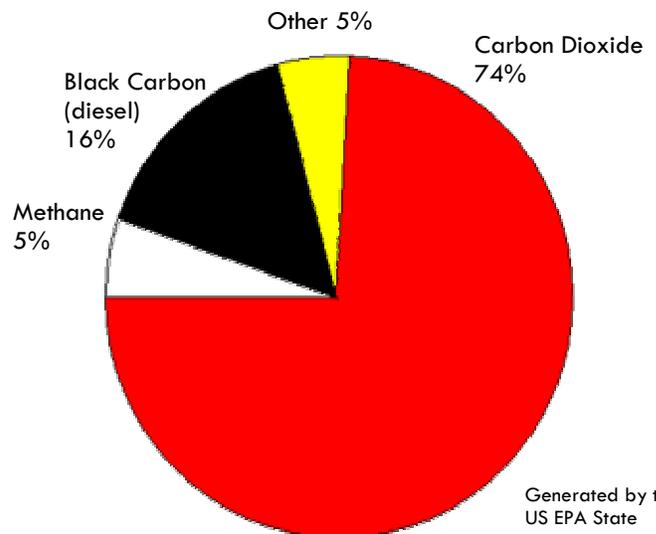
Even a modest increase in average global temperature can trigger enormous consequences:

- **Loss of forests.** The beautiful forests of Tennessee in the Great Smoky Mountains could decline by 5-15 percent as a result of changes in climate.
- **Loss of biodiversity.** Niche species like the Fraser firs may find it difficult to adapt to a rise in average temperature and more frequent storms.
- **Decrease in the standard of living.** Tennesseans can expect an increase in smog-related respiratory disorders, tropical diseases, and heat-related illnesses and deaths.
- **Economic Setback.** The tourism, real estate, and insurance industries will more frequently suffer from storms of greater intensity.

Pollution from Tennessee and the surrounding southern states contributes significantly to global warming. For example, if the global warming emissions of eight southern states were considered one country, they would rank 5th in the world, ahead of India and Germany. Just Florida, Georgia, North Carolina, and Tennessee alone would rank 7th in the world.

Coal is the predominant source of energy in Tennessee and the South. 63% of our power is produced by coal. A large portion of our global warming pollution comes from the utility sector as unregulated carbon dioxide. Likewise, a vast amount of carbon dioxide is emitted by Tennessee's large, unregulated transportation system that continues to grow.

Types of Global Warming Pollution



Tennessee Valley Authority's
Cumberland Power Plant



Solutions

In order for Tennessee to do its part to keep the Earth's temperatures from reaching dangerous levels in coming years, Tennessee needs to dramatically reduce global warming pollution. Here are two emission reduction options in percentages:

Pollution Type	Spread across sectors	Reduce CO ₂ Only
Carbon Dioxide	65%	95%+
Methane	70%	0%
Black Carbon (diesel)	90%	0%

Dirty power plants produce 40% of U.S. global warming pollution: 2.5 billion tons of heat-trapping carbon dioxide (CO₂) every year. Tennessee's 7 coal-fired power plants contribute 59 million tons of CO₂, ranking the state 46th in the world, ahead of Egypt, Argentina, Singapore, and Greece.

Currently, only New England and West Coast states have implemented modest, state-level initiatives to address global warming pollution. Imagine if Tennessee, perceived by most of the nation as conservative and resistant to environmental issues, were to lead the way in stricter regulation for global warming pollution to protect our economy, our environment, and our way of life!

Here are some ways that state and federal governments, corporations, and individuals can decrease global warming pollution while still meeting energy demands:

- **Phase out or clean up dirty, coal-burning power plants.**
- **Phase in renewable wind, solar, and biomass power.**
- **Increase energy efficiency in homes, offices, and industries.**
- **Create State Climate Action Plans that reduce and cap global warming pollution and establish a carbon marketplace.**
- **Introduce Low Emission Vehicle (LEV) standards.**
- **Clean up black carbon from diesel engines.**
- **Reduce methane emissions from landfills and hog farms.**
- **Change personal habits.** Simple things like turning off lights, taking shorter showers, and running your computer in sleep mode add up to big pollution, energy and money savings.
- **Visit our website www.cleanenergy.org** to learn more and to calculate your personal contribution to global warming.

For more information contact Southern Alliance for Clean Energy
1.866.522.SACE (7223) or www.cleanenergy.org

Tennessee Valley Authority windmills
on Buffalo Mountain, Oak Ridge, TN

