

Clean Cities

BUILDING PARTNERSHIPS TO REDUCE PETROLEUM USE IN TRANSPORTATION

WHAT IS CLEAN CITIES?

The U.S. Department of Energy's Clean Cities program takes a grassroots approach to reducing petroleum consumption by supporting alternative-transportation solutions for consumers and vehicle fleets at the local, state and national levels.

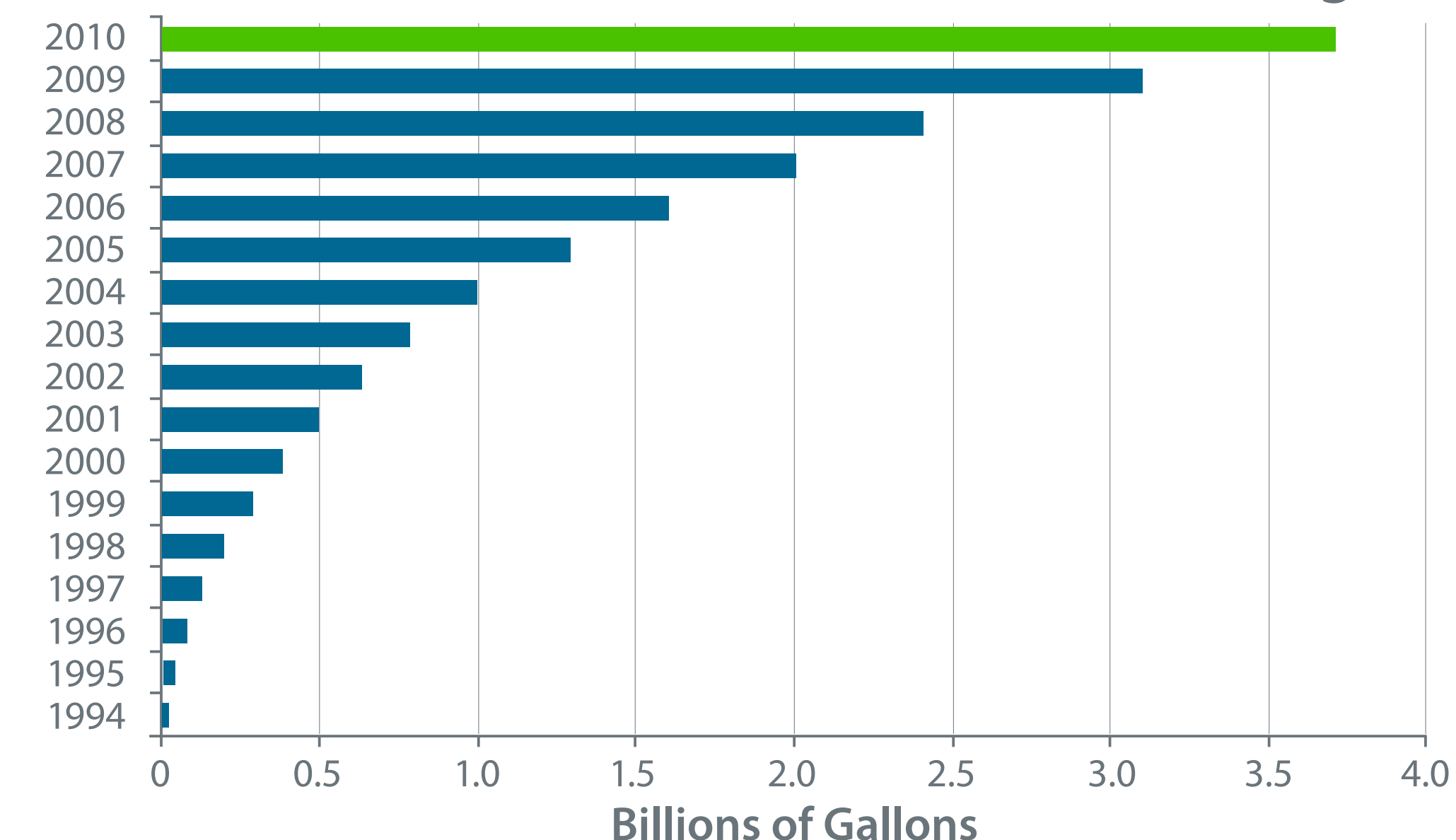
Clean Cities accomplishes this work through the activities of nearly 100 local coalitions. These coalitions provide resources and technical assistance in the deployment of alternative and renewable fuels, plug-in electric vehicles, idle-reduction measures, fuel economy improvements and new transportation technologies, as they emerge.

ARGONNE'S ROLE

Argonne National Laboratory supports Clean Cities' efforts through a variety of tools, analysis, workshops and programs, including:

- ▶ **Clean Cities University Workforce Development Program** unites college interns with Clean Cities coalitions to help promote alternative fuels and advanced vehicle technologies.
- ▶ **Electric Drive Transportation Analysis** provides data and expertise to help communities plan for the rollout of electric vehicles and infrastructure.
- ▶ **GREET Fleet Footprint Calculator** allows fleet managers to estimate the petroleum and carbon footprint of vehicle fleets and compare different fuels and technologies.
- ▶ **Idling Reduction Research** produces data and tools to help drivers and organizations reduce vehicle idling.

Clean Cities Cumulative Petroleum Savings



Clean Cities has saved more than 3 billion gallons of petroleum since the program's beginning.

- ▶ **JOBS NG Tool** estimates the employment and economic impacts of natural gas (NG) vehicles and infrastructure for public and private groups considering investing in NG.
- ▶ **Renewable Natural Gas Analysis** examines the potential of capturing methane at landfills, farms, food waste collection facilities and wastewater treatment plants for local vehicle fuel production.
- ▶ **Shale Gas Analysis** provides local decision makers with data on the technologies, environmental impacts and policies related to shale gas.
- ▶ **Water Footprint Tool** examines biofuel feedstocks, regional water quality and water resource availability to provide insight on the long-term sustainability of the biofuel industry.

Funding is provided by the U.S. Department of Energy's Vehicle Technologies Program.

Argonne works to educate Clean Cities stakeholders about smart chargers for electric vehicles.



Each year, interns work for local coalitions to promote the Clean Cities' mission.



The GREET Fleet Footprint Calculator is based on Argonne's GREET model, an analytical tool that simulates the energy use and emissions of various vehicle and fuel combinations.

