

Chemistry is creating solutions for a strong, secure, and sustainable future

Chemistry is creating solutions that empower Americans to improve energy efficiency, making our nation's energy supplies go further while lowering energy costs for businesses

Many energy-efficient solutions rely on innovations in chemistry – from lithium-ion batteries that power our laptops and mobile phones and will drive the next generation of electric cars, to high-performance building insulation and windows, to lightweight plastic packaging and auto parts that reduce energy needs in shipping and transportation.

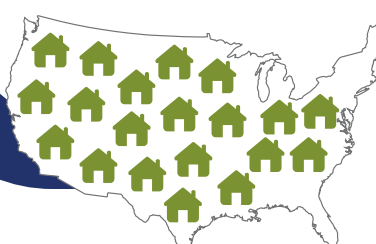
Chemistry enables significant energy savings:

8.0-10.9 quadrillion BTUs

SAVE...



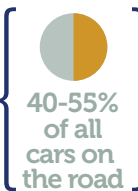
saving up to...
\$85 billion a year



equal to...
41-56 million homes



equal to...
98-135 million cars



Industrial energy efficiency, including CHP, can help keep electricity reliable & affordable

The chemical industry is a leader in the use of combined heat and power (CHP), also known as cogeneration, which provides electric power and heat from a single fuel source. Because energy is generated close to where it's needed, little is lost in transmission. CHP facilities are often twice as efficient as older coal-burning utilities. Increased use of CHP and other forms "distributed generation" could ease a major transition in the power sector as many coal-fired plants are retired.

POLICY PRIORITIES

- ✓ Federal policymakers must enact legislation to improve energy efficiency in the residential, commercial, and industrial sectors
- ✓ States must adopt updated energy efficiency building codes
- ✓ Policies and regulations must recognize and support the potential of technologies such as CHP

The chemistry industry has achieved significant energy efficiency gains

38% Energy efficiency improvement in the U.S. chemical industry since 1974

19% Energy efficiency improvement by Responsible Care® companies since 1992



Energy efficiency helps chemical companies reduce operating costs and remain competitive