



# Energy efficient equipment used in industry

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This article will talk about some of the energy-efficient equipment used in the industry. Whether you work with automotive, textiles, plastics, or food, there are often highly specialized pieces of equipment making the job easier and more precise at the cost of using energy sources such as natural gas, petroleum, electricity, coal, or renewables.

Energy-efficient products at home and across economic sectors save Americans billions on their utility bills each year. The Building Technologies Office's Appliance and Equipment Standards Program implements minimum energy conservation standards for appliances and equipment used in homes, industry, and commercial buildings.

Energy efficient technologies with applications in multiple industries that use low-carbon fuels and energy sources or clean electricity; Low- or no-heat process technologies which achieve similar end products to current processes while utilizing significantly less thermal energy, such as mechanical separations or electrochemical processes

In relation with energy prediction/forecasting (energy metering category), an interesting SLR of Narciso and Martins (2020) addressed the energy consumption forecast to classify the application of ML tools for energy efficiency in the industry. In the precited review, the results emphasize used models such as Least-squares support vector ...

analysis of emerging energy-efficient technologies for industry, focusing on over 50 selected technologies. The technologies are characterized with respect to energy efficiency, economics and environmental performance. This paper provides an overview of the results, demonstrating that we are not running out of technologies to improve energy ...

Energy efficiency is the use of less energy to perform the same task or produce the same result. Energy-efficient homes and buildings use less energy to heat, cool, and run appliances and electronics, and energy-efficient manufacturing facilities use less energy to produce goods.

Energy efficiency is one of the easiest and most cost-effective ways to combat climate change, reduce energy costs for consumers, and improve the competitiveness of U.S. businesses. Energy efficiency is also a vital component in achieving net-zero emissions of carbon dioxide through decarbonization.

The U.S. Department of Energy's Office of Energy Efficiency and Renewable Energy (EERE) champions clean energy through its technical offices and programs that fund research and development and promote energy efficiency across all sectors of the U.S. economy. Learn how you, too, can become a Clean Energy



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Champion.

At home, you can save money on energy bills by making energy-efficient and weatherization upgrades--such as adding insulation, using LED lighting, and installing a heat pump--that reduce your energy use and can improve comfort.

Energy-efficient buildings cost less to heat, cool, and operate, while industry and manufacturing plants can make products at lower cost. Energy-efficient transportation results in fuel savings.

Energy-efficiency programs improve community resilience and address energy equity by bringing efficient, cost-effective technologies and infrastructure to underserved communities, including communities of color.

These communities are disproportionately affected by air pollution and have a higher energy burden, which is the percentage of gross household income spent on energy costs.

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