



Background Facts

- » In 2020, the global building stock is approximately 250 billion square meters¹. To put that in perspective, that's approximately the equivalent landmass of the United Kingdom.
- » The global building stock is also expected to double by 2060².
- » The buildings and building construction sectors combined are responsible for over one-third of global final energy consumption and nearly 40% of total direct and indirect CO₂ emissions³.

AEE Members Play A Critical Role

- » Decarbonizing the building sector
- » Reducing the impact of climate change
- » Help reach the 2-degree temperature target of the Paris Agreement
- » Work towards the Sustainable Development Goals (SDGs) set by the United Nations Development Programme.

¹ Based on International Energy Agency's (IEA) Energy Technology Perspectives 2016 - Towards Sustainable Urban Energy Systems
² Program for Energy Efficiency in Buildings. <https://www.REEB.org>
³ International Energy Agency. <https://www.iea.org>

Improving Our World | Energy Efficiency & Climate Change

Energy efficiency is one of the most economical and fastest ways to make dramatic reductions in Green House Gas Emissions and help in the fight against climate change. Energy efficiency primarily reduces the demand and use of valuable resources, improves sustainability, and for many businesses it can be a source of cost reduction. Almost every area of our lives can be improved by becoming more energy efficient. Being energy efficient is not about restriction, but about becoming smarter. Therefore, it empowers and instigates behavioral change. It also helps improve productivity, drives technological innovation, creates jobs, and stimulates economic growth.

The Association of Energy Engineers is committed to a clean and sustainable energy future for our planet. For AEE members and certified professionals the buildings, in the towns and cities where we live and work offer a massive opportunity to find and reduce energy waste and become more energy efficient. They do this in five key areas:

- **Global Community**
- **Transforming Buildings**
- **Sustainable Development**
- **Renewable and Alternative Energy**
- **Carbon Reduction**

The opportunities available can make a dramatic difference to a local community, and they can also be scaled, and applied globally, to developed and developing nations alike. By increasing the energy efficiency of buildings, reducing energy demand, and reducing greenhouse gas emissions from buildings, AEE members will save firms money, create healthier living and working environments, reduce energy poverty, and help build a more sustainable energy future so that no one is left behind.