

Basic functions of site energy





Overview

What is site energy?

You're probably already familiar with site energy, which is the amount of heat and electricity consumed by a building as reflected in your utility bills. Looking at site energy can help you understand how the energy use for an individual building has changed over time.

Why is site energy important?

Looking at site energy can help you understand how the energy use for an individual building has changed over time. Site energy may be delivered to a building in one of two forms: primary or secondary energy. Primary energy is the raw fuel that is burned to create heat and electricity, such as natural gas or fuel oil used in onsite generation.

What is the difference between source energy and site energy?

Source energy, on the other hand, takes into account the entire train of power from creation to distribution and through to the use of energy by the consumer, which we know as site energy. Source energy includes the site energy plus all of the energy used to provide and distribute the site energy.

Why is source energy more important than site energy?

Source energy is much more important than site energy if the concern is environmental performance. Site energy is useful because it can be unambiguously measured. Converting to source energy has a major effect on electricity (factor of 3), and has a small effect for fossil fuels like natural gas. So what difference does this make?

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What is a site energy score?

It incorporates all transmission, delivery, and production losses. By taking all



energy use into account, the score provides a complete assessment of energy efficiency in a building. You're probably already familiar with site energy, which is the amount of heat and electricity consumed by a building as reflected in your utility bills.

What is "source energy" & "primary energy"?

If you account for the energy consumed at the power plant, this is known as "source energy" or "primary energy." The EPA's definition is: Source energy is a measure that accounts for the energy consumed on site in addition to the energy consumed during generation and transmission in supplying the energy to your site.



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[The Difference Between Source and Site Energy](#)

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Energy , Definition, Types, Examples, & Facts , Britannica

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