





The Energy Race

For this sands of years energy technologies have advanced as knowledge-reported for discovering, transporting, and processing fulfill, along with other advances in insternal.

Exploring the Energy Race

U.S. energy policies and programs distort the search for cleaner, more reliable, more affordable energy

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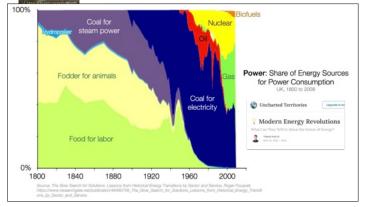
US/Europe Energy Policies and Exports

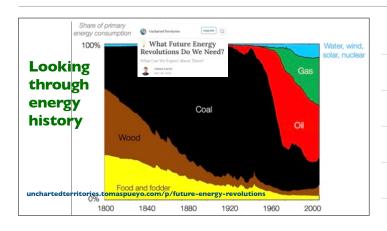
economicthinking.org/category/energy-policy

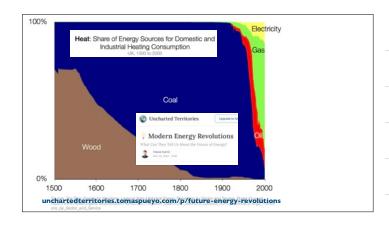








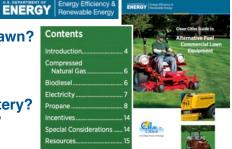




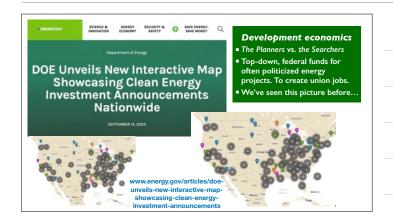
Energy? What is it? What do we use it for?

• Energy for... mowing the lawn?

Lawnmowers
 powered by:
 Teens? Gas?
 Electric? Battery?
 Solar? Wind?
 Steam?









AFTERNOON TEA PIPELINES: THE ARTERIES OF AMERICA'S ENERGY

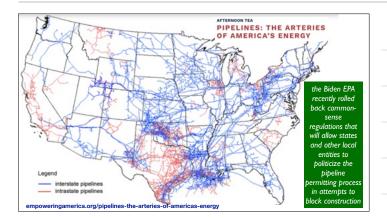
THE EMPOWERMENT ALLIANCE

** The U.S. has the largest network of pipelines in the world with 2.6 million miles stretching across the country.



- ** According to the U.S. Pipeline and Hazardous Materials Safety Administration, pipeline systems are the safest means to move oil and gas products.
- Pipelines deliver over 680 billion gallons of energy products annually.
- ** The U.S. natural gas pipeline network connects to 68 million households and more than five million commercial enterprises.

empoweringamerica.org/pipelines-the-arteries-of-americas-energy





Marlo Lewis, Jr. • 03/15/2023

Climate Change

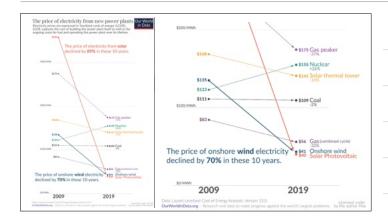
NEPA, enacted on January 1, 1970, is a procedural statute intended to ensure that federal agencies examine the potential environmental impacts of proposed actions—such as approving the construction of infrastructure projects—before finalizing their decisions.

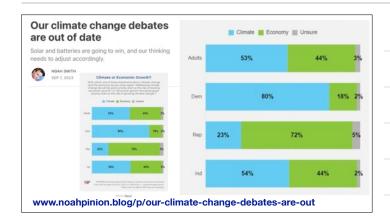
CEQ's guidance "encourages" (i.e. requires) agencies to align infrastructure project reviews with "national, science-based GHG reduction policies"—specifically, President Biden's Paris Agreement pledge to cut U.S. GHG emissions in half by 2030 as part of a government-wide effort to achieve net-zero emissions by 2050.

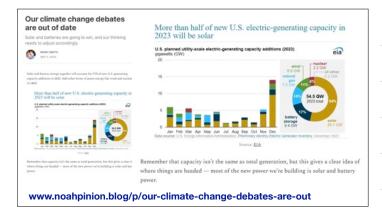
cei.org/blog/cei-advises-ceq-to-withdraw-its-nepa-guidance-on-greenhouse-gas-emissions-and-climate-change



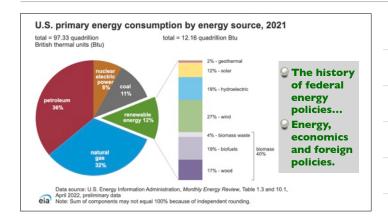
www.americanprogress.org/article/nepapermitting-process-crucial-to-renewableinfrastructure-project-success/

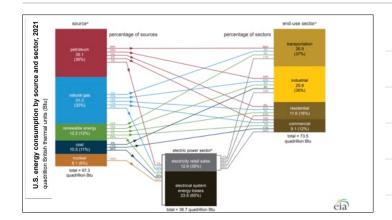












Economics and Engineering Energy explorations...

- @ Energy Economics: incentives, information, and tradeoffs.
- We don't know what we don't know about energy.
- ⊕ Energy discoveries, inventions, innovations coming fast.
- Through history—from wood to peat to coal, oil and natural gas—costs fell, energy density and reliability increased, and pollution (emissions) fell. Cleaner power.
- Hydropower and geothermal limited by location.
- Wind and solar continue to improve, along with energy storage options, but costs and reliability still a challenge.
- ⊕ Technologies advance across the energy landscape.

