

**You may delete this page from the document that follows after reading.**

It contains plain language about the copyright we've adopted from  
**Creative Commons.**

It also contains a link to the summary for our copyright license. This summary should be consulted if you intend to copy and redistribute this material in any medium or format, or adapt, remix, transform, or build upon this material.

[Click Here for information on the Creative Commons License we've adopted.](#)



From **Creative Commons:**

This is a human-readable summary of (and not a substitute for) the license. Disclaimer.

**You are free to:**

- **Share** — copy and redistribute the material in any medium or format
- **Adapt** — remix, transform, and build upon the material

The licensor cannot revoke these freedoms as long as you follow the license terms.

**Under the following terms:**

- **Attribution** — You must give appropriate credit, provide a link to the license, and indicate if changes were made. You may do so in any reasonable manner, but not in any way that suggests the licensor endorses you or your use.
- **NonCommercial** — You may not use the material for commercial purposes.
- **ShareAlike** — If you remix, transform, or build upon the material, you must distribute your contributions under the same license as the original.

**No additional restrictions** — You may not apply legal terms or technological measures that legally restrict others from doing anything the license permits.

# By The Numbers

## Instructor's Guide

### Objectives:

- Students will learn basic dynamics and facts about the American energy economy today.
- Students will understand:
  - ✓ the primary sources of energy used today in the United States
  - ✓ how each source of energy is provided by nature
  - ✓ whether each source is nonrenewable or renewable
  - ✓ the percent of total energy use each source supplies
  - ✓ the primary uses of each source of energy

### The Main Thing:

Used by itself, this activity is a basic, graphically visual introduction to American energy dynamics. The idea behind the lesson is to present big picture information about how we use our energy in America. If this information isn't well understood, poor decisions about energy are often made, many times by people who should know better. Make sure your students know better!

### Activity and Teacher Notes:

The activity is presented here as a stand-alone lesson. However, it can be used many different ways. It can be used as a stand-alone lesson to introduce students to basic American energy dynamics. It can be used to supplement a lesson about all of the energy resources used in America (**Wisconsin's Energy Resources**), or a lesson about renewable energy resources used (**Wisconsin Renewables**). It could be used as a "question of the day" activity, or it could be used as a visual quiz or test with some modification.

To decide how to use the activity, view the slide presentations first. Though the activity can be used to cooperate and coordinate with other lessons, it may certainly be used by itself. It is presented to you that way here, as a basic, graphically visual introduction to American energy dynamics.

The presentation was created and updated with the best information available from the **United States Energy Information Administration** in July, 2020. It was supplemented with information from the **National Energy Education Development Project**.

The easiest way to use the activity as a stand-alone activity would be for the teacher to lead students through the slides live. The slides can be easily used to quiz, teach, and will provide a platform for good questions, discussion, and further research.

Look over and edit the slide presentation to fit how and what you want to teach. Do the same with the student materials. Then make this visually rich lesson work in your classroom!