




## Energy Project

 Indicates a research-demonstrated benefit

### Overview

A professional development program for K-12 teachers on the learning of energy with two main goals: (1) to help teachers learn about energy, and (2) to help teachers to experience science as an area where they and their students are empowered to figure things out. Energy Project instruction is inquiry-based with respect to both content and method: participants construct their own understanding both about energy and about what it means to learn.



#### Type of Method

Instructional strategy




#### Level

**Designed for:** Teacher Professional Development 

**Can be adapted for:** Teacher Preparation, Intro College Conceptual



#### Setting

**Designed for:** Lecture - Small (<30 students) 



#### Coverage

Few topics with great depth



#### Topics

Mechanics, Thermal / Statistical



#### Instructor Effort

High




#### Resource Needs

Tables arranged for group work




#### Skills

**Designed for:** Representing knowledge in multiple ways  , Conceptual understanding of physics content, Coherent framework for physics, Understanding how physics relates to the real world, Think like a scientist, Reflecting on one's own learning, Self-confidence around physics, Enjoyment of physics, Creativity, Autonomy, To pay attention to their students' thinking, To experience science as an area where they and their students are empowered to figure things out



#### Research Validation

**Based on research into:** how students learn  , student ideas about specific topics 

**Studied using:** classroom observations  , video of students 



#### Compatible Methods

[PhET](#), [Physlets](#), [SCALE-UP](#), [OSP](#), [CPU](#), [SGSI](#), [Responsive Teaching](#)

 **Similar  
Methods**

[SGSI](#), [Responsive Teaching](#)

 **Developer(s)**

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 **Website**

<http://www.energyprojectresources.org/>

