



## Energy Project

 Indicates a research-demonstrated benefit

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### Overview

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A professional development program for K-12 teachers on the learning of energy. Teachers construct an understanding about energy and about learning.



Type of Method

Instructional strategy




Level

**Designed for:** Teacher Professional Development 

**Can be adapted for:** Teacher Prep Course, 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 for group work





Skills

**Designed for:** Using multiple representations  , Conceptual understanding, Making real-world connections, Metacognition, 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:** theories of how students learn  , student ideas about specific topics 

**Studied using:** classroom observations 



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/>

 **Intro Article** 10368

 **Intro Article** [Using the Algebra Project Method to Regiment Discourse in an Energy Course for Teachers](#)

