



GIREP-EPEC

Transforming physics learning via Research & Practice
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Type: **Poster**

Basic physics in energy transition: a thematic course

Monday 30 June 2025 16:30 (1 hour)

Abstract. The purpose of this work is to present various types of energy production from the basic physics point of view. A thematic course was created at our university, aiming environmental sciences and engineering students to develop skills in important areas of physics that are related to energy production and consumption. Selected topics were pinched from different areas of physics and organized to be presented in a way that permits the understanding of simple models and calculations related to different sources of energy. The contents of this course can be simplified to reach high school students.

Education level

Age over 18 (excluding teacher education)

Physics topic

Thermodynamics and Energy

Research focus

Competence-based education

Research method

Other

Organizing preference criteria

Physics topic

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Session Classification: Poster session

Track Classification: Interdisciplinary topics (INTER)