

## Energy Resources

KLEDJA CANAJ

*POLIS University*

The workshop merges the basics of energy resources for Environmental Studies students with a comprehensive understanding of how the energy sector operates in Albania and developed countries. It delves into the sustainability of both renewable and non-renewable energy sources and their environmental impacts, considering the pressing issue of climate change. By categorizing energy sources into renewable and non-renewable categories, participants gain insights into various forms of energy and their effects on the environment. Additionally, the workshop also aimed to increase participants' competence for using energy analysis tools, updating development plans connected to energy systems and sustainability, and estimating energy footprints. Practical exercises and training sessions were incorporated to help participants improve their energy management abilities in a variety of industries, including construction, energy systems, agriculture, and food. Finally, this program presented Environmental Studies students with the foundational knowledge and practical skills needed to analyze, manage, and contribute to sustainable energy practices in the face of global issues such as climate change.

### OBJECTIVES

During the workshop, attendees delved into a range of topics encompassing energy management, sustainability, and environmental conservation. Through a blend of theoretical learn-

ing, practical exercises, and group collaborations, participants gained the necessary knowledge, skills, and tools to adeptly tackle the intricate challenges associated with energy. Below are the primary objectives of the workshop:

**Provide Insights into Global Energy Dynamics:** To offer insights into global energy dynamics, including comparisons between Albania and developed nations, facilitating the development of a nuanced understanding of energy sector variations and their environmental repercussions.

**Comprehensive Knowledge of Types of Energy and Sources:** The workshop provided participants with a comprehensive understanding of various types of energy and their respective sources, spanning renewable and nonrenewable categories, along with the environmental implications associated with each.

**Enhanced Understanding of Energy Footprint in Product and Services:** Participants gained insights into the energy footprint associated with buildings, energy systems as well as agricultural practices and food systems, including the identification of energy inputs, outputs, and efficiencies within these sectors.

**Proficiency in Energy-related Calculations:** Participants will develop proficiency in conducting energy-related calculations, including assessments of energy consumption, efficiency, and impacts, enabling them to analyze and optimize energy use in different processes.

**Skill Development in Sustainable Energy Practices:** The



Photo During the Workshop



Photo During the Workshop

workshop aims to equip participants with practical skills for implementing sustainable energy practices across various sectors, including agriculture, urban development, and industry.

**Cultivate a collaborative learning environment:** Fostering teamwork among participants, enabling them to collectively explore and address complex energy-related challenges through collaboration, knowledge sharing, and mutual support.

## METHODOLOGY

The workshop methodology aimed to provide an engaging and comprehensive learning experience by incorporating various teaching tools and activities, encouraging active participation and collaborative learning among participants. The methodology primarily consisted of three components: PowerPoint lectures, class exercises focusing on energy analysis methods, and SWOT analysis sessions.

**PowerPoint lectures:** PowerPoint presentations were used to deliver key concepts and theories related to energy resources, sustainability, and environmental impacts. These lectures provided foundational knowledge on topics such as renewable and non-renewable energy sources, energy efficiency, climate change, and sustainable development.

**Class Exercises on Energy Analysis Methods:** Interactive class exercises were conducted to reinforce learning and practical application of energy analysis methods. Participants were guided through hands-on exercises to analyze energy consumption patterns, estimate energy footprints, and identify opportunities for energy efficiency improvements;

**SWOT Analysis Sessions:** SWOT analysis sessions were conducted to evaluate the strengths, weaknesses, opportunities, and threats associated with different energy resources as well products and services. Participants worked collaboratively to identify internal and external factors influencing energy-related decisions and strategies. Through SWOT analysis, participants gained insights into the current state of energy systems, potential challenges, and opportunities for improvement and innovation.

Overall, the workshop methodology combined traditional lectures with interactive exercises and group discussions to foster a deeper understanding of energy resources and sustainability concepts. By incorporating diverse teaching methods, the workshop aimed to cater to different learning styles and facilitate active participation and knowledge retention among participants.

## CONCLUSIONS

In summary, the workshop offered an immersive experience over three days, combining interactive sessions and collaborative activities to deepen participants' grasp of energy resources and sustainability practices. PowerPoint lectures provided foundational knowledge, while hands-on exercises enabled practical

application of energy analysis methods and identification of efficiency opportunities. SWOT analysis sessions enhanced critical evaluation skills across various factors influencing energy sources and sustainability initiatives. Participants actively engaged in assignments, including energy efficiency assessments of crop cultivations and apartments, and a comprehensive SWOT analysis of Albanian electricity sources. Through teamwork, participants not only honed technical skills but also gained a holistic understanding of sustainable energy management complexities. Overall, the workshop fostered teamwork, and critical thinking, and equipped participants with the skills to address energy challenges and contribute to sustainable development efforts.