


Promoting academia-industry alliances
for R&D through collaborative and
open innovation platform - AI4RAD

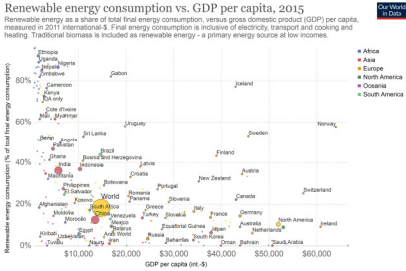
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1. General information about course

- Title of the course: **Renewable energy sources**
- Professor: **Elvir Zlomušica**
- Institution: **Džemal Bijedić University of Mostar (UNMO)**
- E-mail: **elvir.zlomisica@unmo.ba**

Renewable energy consumption vs. GDP per capita, 2015




Renewable energy as a share of total final energy consumption, versus gross domestic product (GDP) per capita, measured in 2015 International \$. Final energy consumption is inclusive of electricity, transport and cooking and heating. Traditional biomass is included as renewable energy - a primary energy source at low incomes.

Source: World Bank, Sustainable Energy for All (SE4ALL)


Agreement number – 2018 – 3234 / 001 – 001
Project reference number – 598719-EPP-1-2018-1-MK-EPPKA2-CBHE-JP

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2. Description of the course

Within the available fund of hours, students will be introduced to the field of sustainable management of natural resources; basics of different forms of renewable energy sources.

Course will provide the necessary background knowledge to continue studying various different forms of renewable energy sources.

Definition of Renewables. Definition of Non - Renewables. Overview of energy in the world. Renewable energy sources. Hydropower. Biomass. Wind energy. Solar energy. Geothermal energy. Tidal energy. Wave energy. Ocean thermal energy conversion (OTEC). (Hydrogen energy). RES benefits. Problems and limitations. Current trends. Potential and forecasts. RES in Bosnia and Herzegovina.

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3. Target group and prerequisites

Target group/Learners profile: students, municipalities, NGOs, and other interested parties in the field of law, economy, urbanism, environmental protection, architecture, etc.

Prerequisites (required pre-knowledge and experiences):

Basic knowledge on renewable energy sources.



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4. Learning outcomes

After successful completion of the course, participants will learn the necessary terminology in the field of energy and renewable energy sources. They will have basic knowledge about the division, technical and technological characteristics, etc.

The participants will be able to realise progress, problems and limitations, current trends, potential and forecasts for RES in the world, in the EU and, also, in Bosnia and Herzegovina.

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5. Training and learning methods

- Lecture, online lectures, self-guided learning, individual research project (critical thinking-logical reasoning), case studies, recommending reading

