



Greetings from the Renewteach Team!

We're thrilled to share the latest updates with you.

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1st Project Result - delivered

Development of Curriculum and Training
Program for Preservice Teachers

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Current status of PR2

Development of Multimedia Based Online
Learning Content and Material

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Second transational project meeting

Pamplona, Spain, organized by the Association
of Navarre's Industry.

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Upcoming events

Will take place in June 2023, in Maribor, Slovenia
organized by University of Maribor.

The subject of RE is one that includes both the science and engineering disciplines and that, by its own nature, encompasses the STEAM disciplines. Therefore, it is important to understand the intersection of multidisciplinary approaches with each other and with NGSS' crosscut concepts.

In the completed Delphi study, perspectives from scientists, climate scientists, risk psychologists, engineers, and academics specializing in Renewable Energy (RE) were gathered. Interviews were systematically conducted with these experts to ascertain their insights on the essential components to be incorporated into the curriculum for the RE course. The outcome of these interviews guided the identification and definition of emerging themes. Subsequently, a comprehensive content analysis was undertaken, involving a thorough examination of relevant literature to inform and shape the finalized curriculum.

Unit Format

In each unit, learning outcomes are handled by considering EQF competencies and crosscutting concepts of NGSS. Procedural knowledge for renewable energy is provided with STEM integration.

Learning outcomes

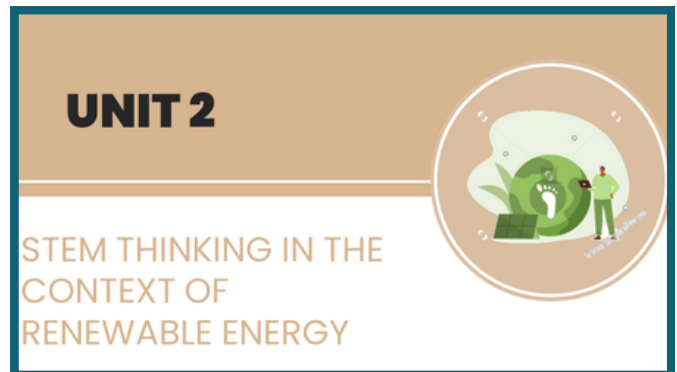
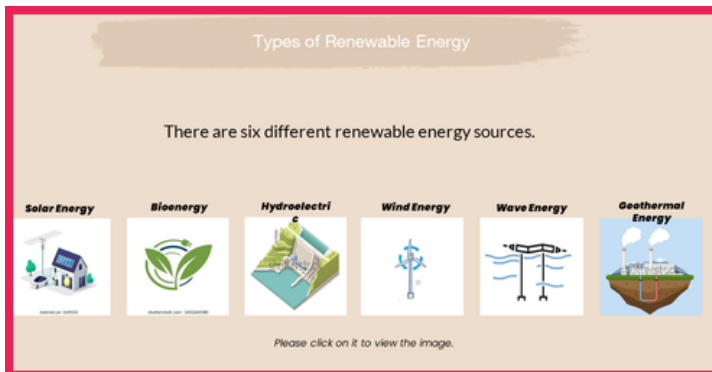
Learning outcomes describe the knowledge, skills, or attitudes that learners need to know, do and apply in each unit. Learners must achieve the learning outcomes to pass the unit.

Course Structure

Units	Title
Unit 1	Introduction to the Subject Area of Renewable Energy Resources
Unit 2	STEM Thinking in The Context of Renewable Energy
Unit 3	Solar Energy/Photovoltaic Energy
Unit 4	Biogas Energy/Biomass
Unit 5	Hydroelectric Energy and Wind Energy
Unit 6	Wave Energy and Geothermal Energy and Heat Pumps
Unit 7	Best Practices and Social Impacts of Renewable Energy



Development of Multimedia Based Online Learning Content and Material

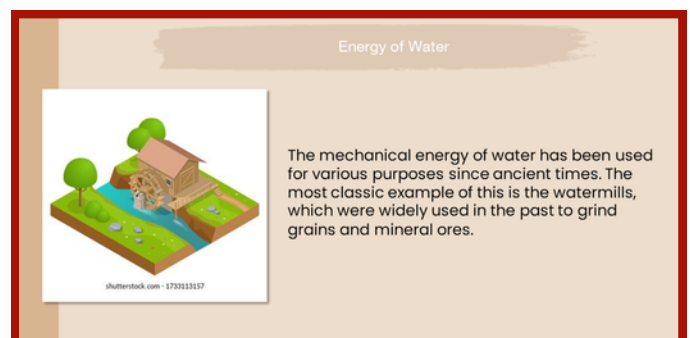
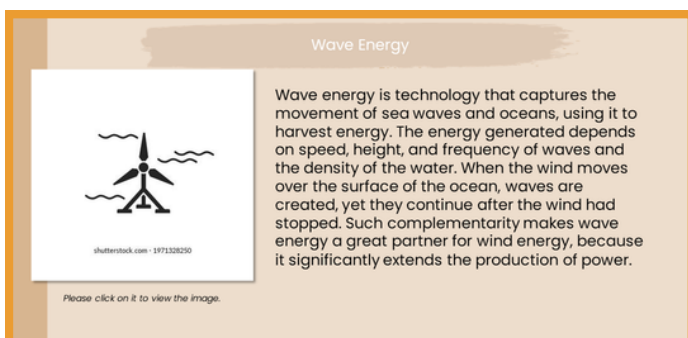


The education environment related to RE should be designed effectively and teacher candidates should be brought together with materials to support this education.

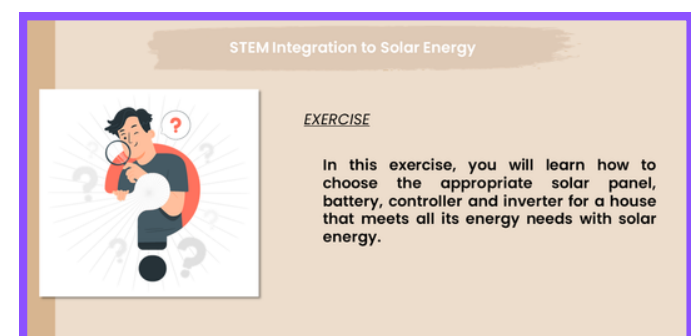
As PR1 and PR2 mutually complement each other, PR2 is constructed on addressing the requirements outlined in PR1. In essence, PR2's paramount necessity lies in its role as a supplement to PR1.



Through the STEAM-based curriculum (PR1) established within the context of RE, coupled with Multimedia Based Online Learning Content and Material (PR2) encompassing the practical applications of this curriculum, prospective teachers will be equipped with a new curriculum.



Learning materials, serving as instruments, will facilitate the integration of STEAM into Renewable Energy (RE) through inventive pedagogical approaches like hands-on, minds-on, and inquiry-based learning. Aligned with the curriculum themes (PR1), a comprehensive learning and teaching framework was developed, encompassing cognitive, affective, and talented achievements.



Project Meetings

03

Pamplona, Spain
2nd meeting, October 2022

The RENEWTEACH second meeting took place in October 2022, in Spain, organized by the Association of Navarre's Industry. The consortium discussed PR1 current status and plan of PR2. Story boards of each unit were distributed among partners. Dissemination Plan and Activities were established in this meeting.

04

Maribor, Slovenia
3rd meeting, June 2023

The RENEWTEACH second meeting will take place in June 2023, in Maribor, Slovenia organized by University of Maribor. The consortium will discuss the further steps of the project.



renewteach



renewteach



renewteacheu



renewteach.org



renewteach@gmail.com

**PROJECT
COORDINATOR**

**BURSA ULUDAG
UNIVERSITY**

www.uludag.edu.tr



**OSMANGAZI DISTRICT OF
NATIONAL EDUCATION
DIRECTORATE**

BURSA
OSMANGAZI İLÇE MİLLÎ EĞİTİM MÜDÜRLÜĞÜ

www.osmangazi.meb.gov.tr



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