



PROJECT COORDINATOR

BURSA ULUDAĞ UNIVERSITY

www.uludag.edu.tr



OSMANGAZI DISTRICT OF
NATIONAL EDUCATION
DIRECTORATE

www.osmangazi.meb.gov.tr



BURSA
OSMANGAZI İLÇE MİLLİ EĞİTİM MÜDÜRLÜĞÜ



GAZI
UNIVERSITY

www.gazi.edu.tr

UNIVERSITY
OF MARIBOR

www.um.si



UNIVERSITY OF
BUCHAREST



VIRTUTE ET SAPIENTIA

UNIVERSITY
OF BUCHAREST

www.unibuc.ro

ASSOCIATION OF
NAVARRE'S
INDUSTRY

www.ain.es

ain

RenewTeach

Developing Competences of Pre-Service Teachers through STE(A)M-based Renewable Energy Curriculum

PROJECT NO: 2021-1-TR01-KA220-HED-000027614



renewteach



renewteach



renewteacheu



renewteach.org



renewteach@gmail.com



Funded by
the European Union

This project has been funded with support from the European Commission. This publication reflects the views only of the author, and the Commission cannot be held responsible for any use which may be made of the information contained therein.

PROJECT DESCRIPTION

RenewTeach is a European project (2021-1-TR01-KA220-HED-000027614), having the aim of developing a curriculum on the subject of Renewable Energy (RE) for preservice teachers.

The project's consortium is made up of public and private organizations from four countries: Türkiye, Slovenia, Romania and Spain.

During the project, materials, links and information related RE curriculum will be produced. The resources will be made available through an online portal which will act as a hub for interested actors and a central meeting and information point for preservice teachers, stakeholders, academics creating the premises of developing a community of practice on RE subject.

The learning, teaching and training activities will be designed and materials produced will be used and tested during the specific workshops. The preservice teachers will be supported on the use of design-oriented (STEAM-based) activities for RE in their professional lives, with the guidance of the trainers (academics).

Five panel discussions will be conducted for disseminating the project's intellectual outputs: Curriculum and Training Program (PR1), Multimedia Based Online Learning Content and Materials (PR2), Assessment Tool (PR3) Online Platform Content, Best Practices Pool - E-guide (PR4).



PROJECT RESULTS

CURRICULUM
FOR ELEMENTARY AND SCIENCE
PRESERVICE TEACHERS

**MULTIMEDIA
ONLINE LEARNING
CONTENT AND
MATERIAL**

**SELF ASSESSMENT
TOOL**

ONLINE PLATFORM

**MULTIPLIER
EVENTS**

FIVE DISCUSSION PANELS

**LEARNING,
TEACHING AND
TRAINING
ACTIVITIES**

FOR PRESERVICE TEACHERS

ENVIRONMENT AND FIGHT AGAINST CLIMATE CHANGE

Climate change and environmental degradation has become a threat to the EU and the whole world. According to the EU European Green Deal, countries have turned to policies that prioritize clean and renewable energy sources in order to cope with this threat.

If teachers and pre-service teachers have sufficient knowledge and skills about RE resources, then their students' knowledge and skills will also develop and this change that occurs in the educational environment will spread to other parts of the society (Liarakou, Gavrilakis, & Flouri, 2009).

RENEWABLE ENERGY IN HIGHER EDUCATION

Relevant field literature states that teachers and pre-service teachers in different branches do not have sufficient knowledge or skills about RE resources and there is a need to increase their education level in this regard (Altuntaş & Turan, 2018).

Second, researchers agree that this situation stems from the inadequacy of the curriculum and training related to RE resources.

In many countries, it is frequently emphasized that there is a need for a special curriculum that will develop students' knowledge and skills about energy education and focus on thinking skills in higher education (Mälkki, Alanne, & Hirsto, 2015, Güven & Sülün, 2017).

