



Agência Nacional
Erasmus+ Juventude/Desporto
Corpo Europeu de Solidariedade



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YOUTH CHARGING THE WORLD





THE PROJECT

According to a study carried out in 2019 by the European Environment Agency, the energy sector was responsible for 77.01% of greenhouse gas emissions. The European Union was the third largest emitter of greenhouse gases in the world with 4499851 Kt of CO2 equivalent in 2015.

With this information in mind, we believed that was important to develop more projects related with sustainability and climate change,

specially related with renewable energy. So we implemented the Youth Exchange of the project “Youth Charging the World” which aimed to promote social inclusion and active participation of young people, through intercultural dialogue.

The Youth Exchange happened in Lamego (Portugal) from 14th to 19th of November 2023, there were 42 participants from 6 different countries: Spain, Greece, Slovenia, Romania, Italy and Portugal.

PARTNERS

This project was coordinated by ORDINCEA - Douro Organisation for Inclusion, Culture and Artistic Education and counted with the following partners:



c e s i e
the world is only one creature



A way for a better you!



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ACTIVITIES

In this section we will show you three three of the activities that worked best and that our participants were most enthusiastic about carrying out. They were entirely created by us. Feel free to “steal” the ideas!

SUSTAINABLE CITIES

For the “Sustainable Cities” activity, groups of 6 young people were formed to collectively develop the planning of a sustainable city, integrating the knowledge acquired throughout the YE (Youth Exchange). During this activity, participants were challenged to conceive a city that promotes sustainability in various aspects: this includes considering sustainable modes of transportation, such as electric bicycles, efficient public transportation, or electric cars. Some groups designed buildings using eco-friendly materials that minimize environmental impact during construction and throughout their lifecycle.

The emphasis on using various methods of renewable energy generation stands out as a crucial element in creating a sustainable city. Groups were encouraged to explore clean energy sources, such as solar, wind, or hydropower, to reduce dependence on non-renewable sources. In addition to theoretical planning, the activity stimulates creative expression, encouraging each group to let their imagination soar in creating models representative of the envisioned sustainable city.



Thus, the “Sustainable Cities” activity aims not only to convey knowledge about sustainable practices but also to promote creativity and the practical application of these concepts in building a more responsible and environmentally conscious urban environment.



PHONE CHARGER

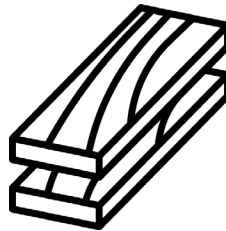
If you want to build your own mobile phone charger that operates with wind power, you'll need the following materials:

Soda Cans for Developing Blades:



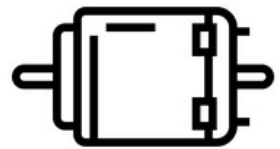
Utilize soda cans to craft the blades, ensuring efficient capture of wind energy.

Wood for Constructing the Charger Frame:



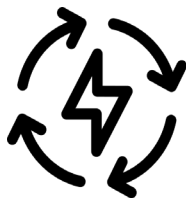
Use wood to create the structure of the charger, providing support and stability to the device.

Motor - 12V Used in This Case:



Incorporate a 12V motor, a key component for generating energy from the wind and powering the charging system.

Boost Circuit and Boost Generator Voltage to 5V (USB Standard Voltage):



Employ a boost circuit and generator to elevate the motor voltage to the standard 5V required for USB, ensuring compatibility with USB charging devices.

USB Connector:



Integrate a USB connector as the final component, allowing the device to connect to the mobile phone charger and enabling efficient energy transfer to the mobile device.

GIVE IT A TRY!

All of our participants managed to do their own!



If you have any doubts you can always take a look at the step by step video [here!](#)

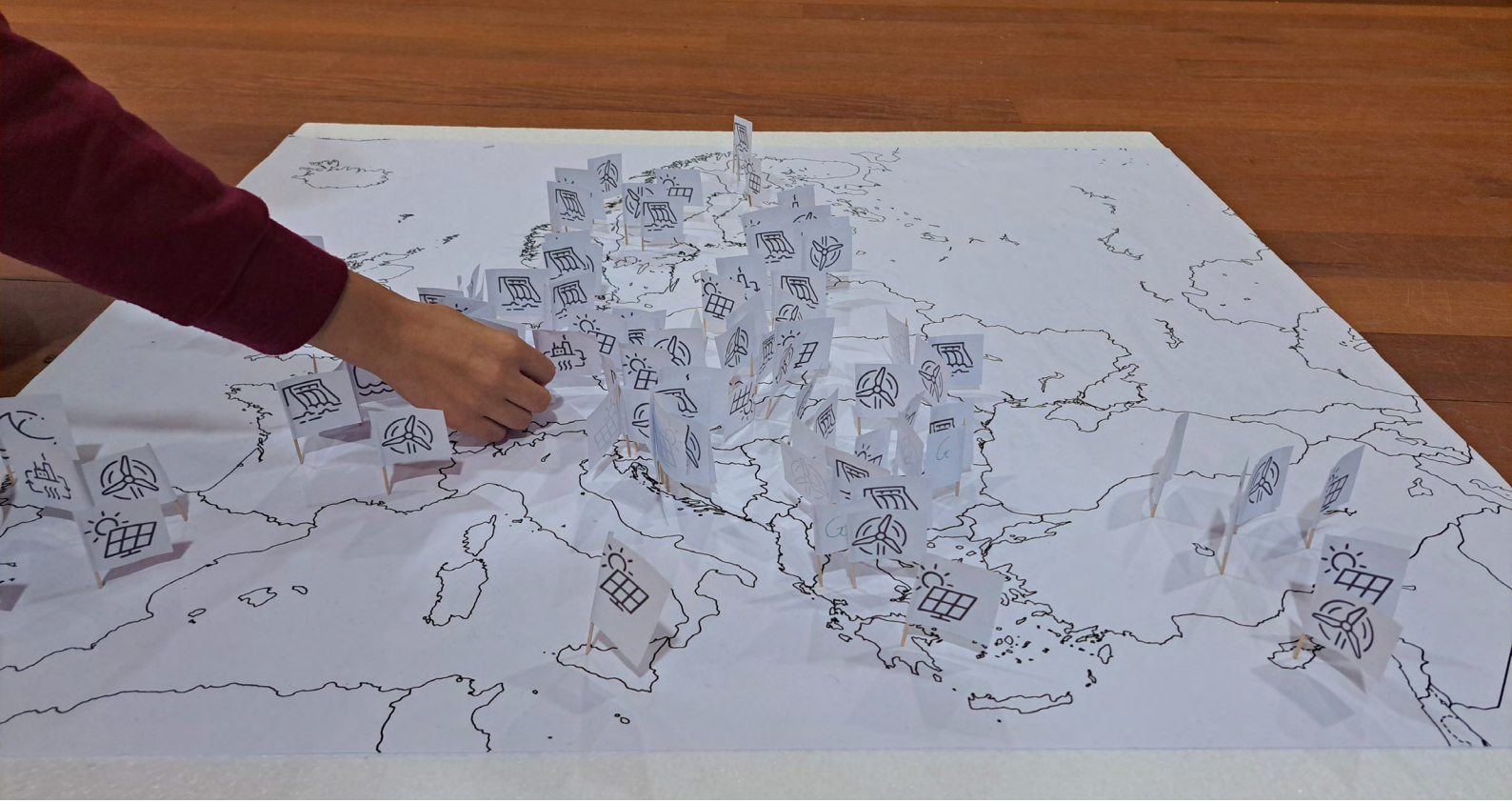


RENEWABLE ENERGIES IN EUROPE

In this activity, participants were in groups by country and started by doing some research on the renewable energies used in various European countries, as indicated by this link https://ec.europa.eu/eurostat/databrowser/view/NRG_BAL_C_custom_8506554/default/table?lang=en (wind, solar, hydropower, and geothermal). Subsequently, we affixed a map of Europe onto a foam board, where participants placed representative flags for each type of renewable energy in the corresponding countries (one

flag for each type of renewable energy). This dynamic not only fostered collaboration and knowledge sharing among participants but also provided a clear visual representation of the diversity of renewable energy sources across the European region. Beyond enhancing understanding of sustainable energies, the activity stimulated collective awareness regarding the importance of adopting these sources for a more sustainable future.







SOME FEEDBACK **FROM OUR PARTICIPANTS:**

“I’ve learned some useful information about what is happening in USA and that EUropean Union has a greater potential of using green energy than the other continents for example. We are lucky to live in the EU because the EU Parliament has a lot of regulations for using energy, its daily usage and for its sources”.

“I’ve learned some useful information about specifics of renewable energy, specially specifics in each country of the participants, which gave me an insight of how much this is used and new ways of approaching it. The most that marked me was the different tasks and view of dealing with the issue, specially using creativity”.

“The thing that marked me the most is how our decisions can influence in the others, sometimes with no options”.

“I learned a lot of new and useful information□ Some important details about renewable sources of energy and the situation in other countries, ways to calculate my own carbon footprint and the factors-habits that increase it.And last but not least ,the way to create a phone charger!”



ABOUT ORDINCEA

ORDINCEA - Douro Organisation for Inclusion, Culture and Artistic Education is a youth association created in June 2021, by a group of youngsters. We seek to promote cultural, artistic, and sports initiation in basic national education, organizing events, establishing partnerships, and foster personal, interpersonal, and social competence development. Additionally, the organization prioritizes social and community integration through interdisciplinary projects between Education, Science, and Culture, advocates for equal opportunities, and contributes to social and cultural development. We have been focused on addressing sustainability and climate change issues, reflecting the association's commitment to these concerns in its recent activities and initiatives. The organization aims to contribute to a more sustainable and environmentally conscious approach in its efforts to enhance skills, autonomy, and identity at personal, regional, and institutional levels.

