

RESEARCH PROJECT:

ENERGY SOURCES AND ENERGY PRODUCTION.

Situation in Spain and Scotland

Technology 3º ESO IES Villa de V́icar

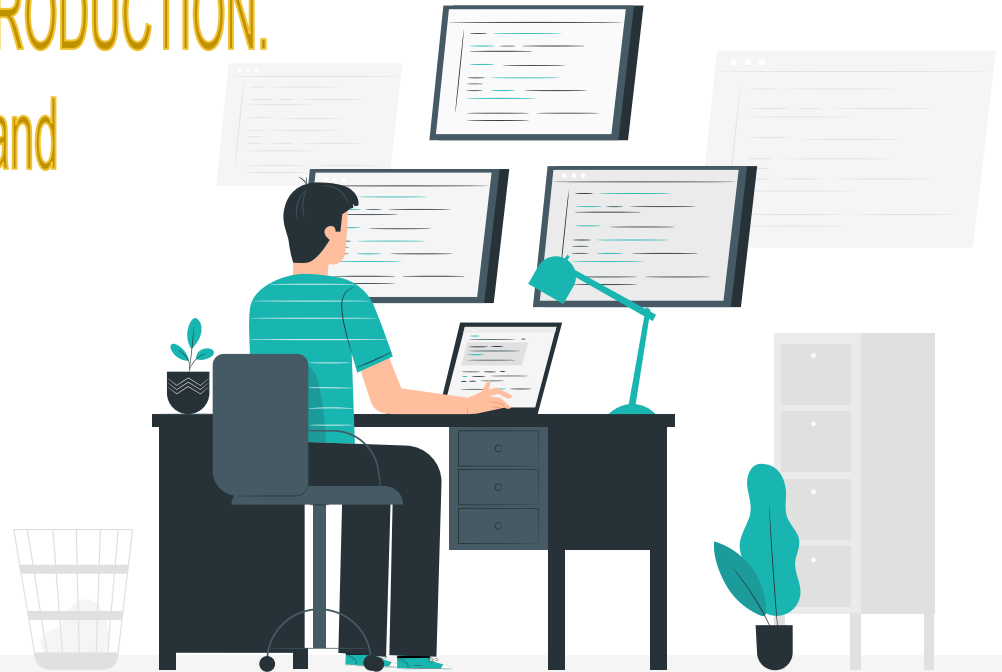


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General Overview

Short introduction to the topic of energy, as well as basic concepts

02

Methodology – Subtopics

How you will work and the subtopics to choose will be presented

03

Sources of information

Collection of links to documents and webpages of interest.

Software: Google Slides

Some tips and tutorials in the use of this presentation software

04

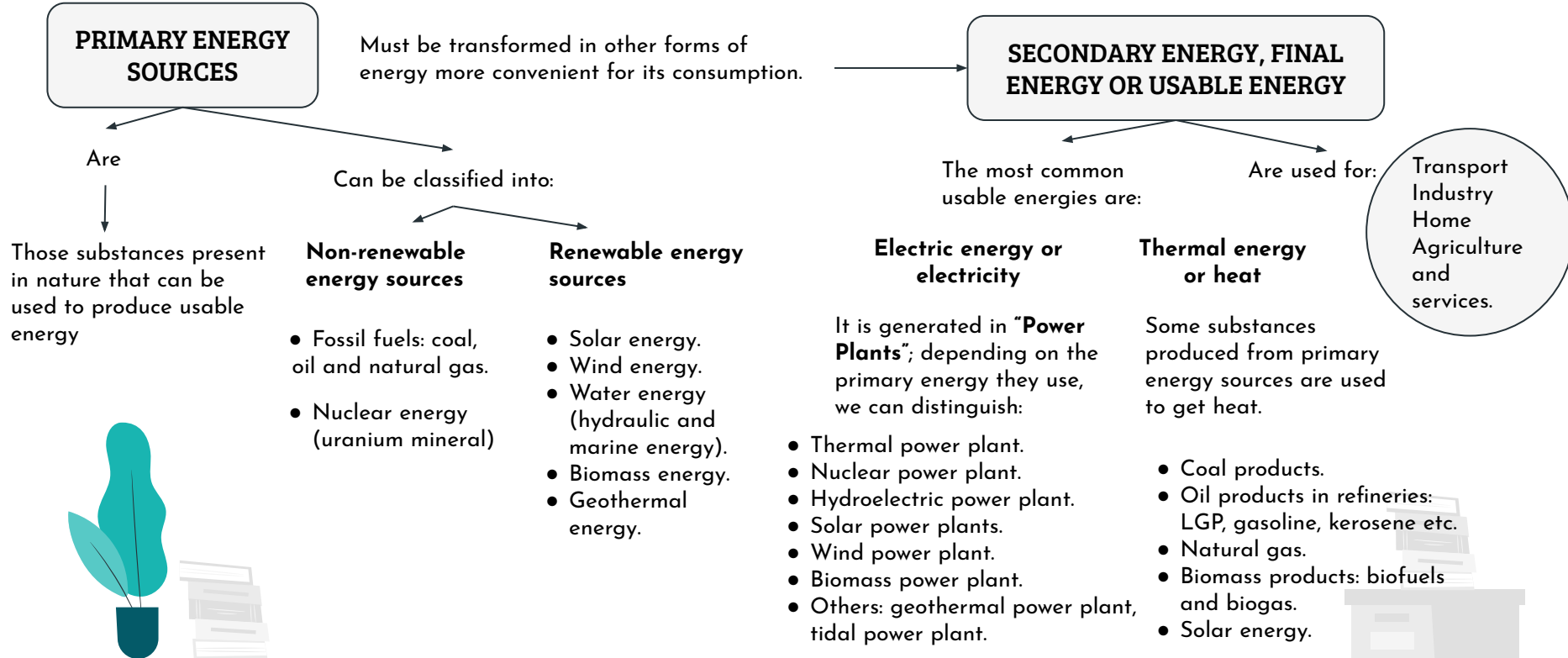
Parts of the presentation 05

General structure of the presentation

Oral exposition 06

Requirements and tips

01 GENERAL OVERVIEW



02 METHODOLOGY



You will work in groups of three students.

The project will consist of these stages:



1. Design of the presentation document and selection of the info to use in it (text, pictures, graphs, diagrams...)

At first
work in
paper



2. Creation of the presentation document with Google Slides, taking advantage of the possibility to work online.

No
more
than 10
slides



3. Preparation of the oral exposition.

Around
10
minutes

4. Oral exposition. Deadline: beginning of March

02 SUBTOPICS (TO CHOOSE ONE)



01. Non-renewable energy sources: fossil fuels

- Production of oil products in refineries, coal and natural gas.
- Transport to consumption places.
- Use of fossil fuels to produce electricity in power plants.
- Use of fossil fuels to produce heat at home and industry and to move vehicles.
- Current situation of fossil fuels in Scotland and Spain



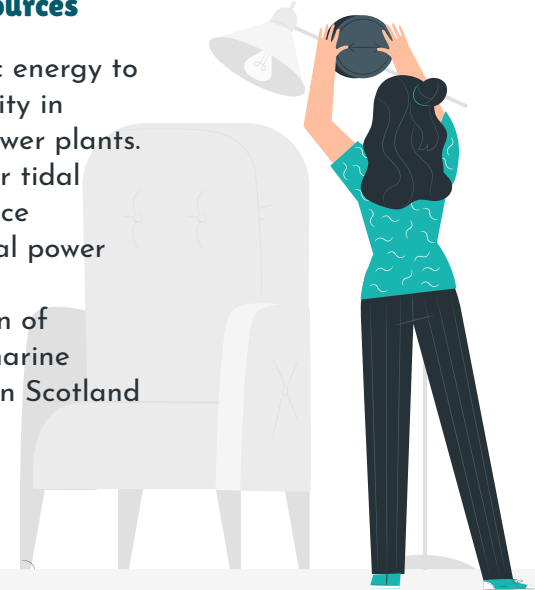
02. Non-renewable energy sources: nuclear energy

- Use of nuclear energy to produce electricity in power plants.
- Current situation of nuclear energy in Scotland and Spain



03. Hydraulic and marine energy sources

- Use of hydraulic energy to produce electricity in hydroelectric power plants.
- Use of marine or tidal energy to produce electricity in tidal power plants.
- Current situation of hydraulic and marine energy sources in Scotland and Spain



02 SUBTOPICS (TO CHOOSE ONE)



04. Biomass energy sources.

- Use of biomass (municipal solid waste, other biomass waste, biogas and biofuels) at home, for vehicles in transport and for the generation of electricity in power plants.
- Current situation of biomass energy sources in Scotland and Spain



05. Solar and geothermal energy sources

- Use of solar energy to produce electricity in thermosolar power plants and photovoltaic solar plants.
- Use of solar energy to produce electricity and heat for domestic use.
- Use of geothermal energy to produce electricity in geothermal power plants.
- Current situation of Solar and geothermal energy in Scotland and Spain



06. Wind energy source

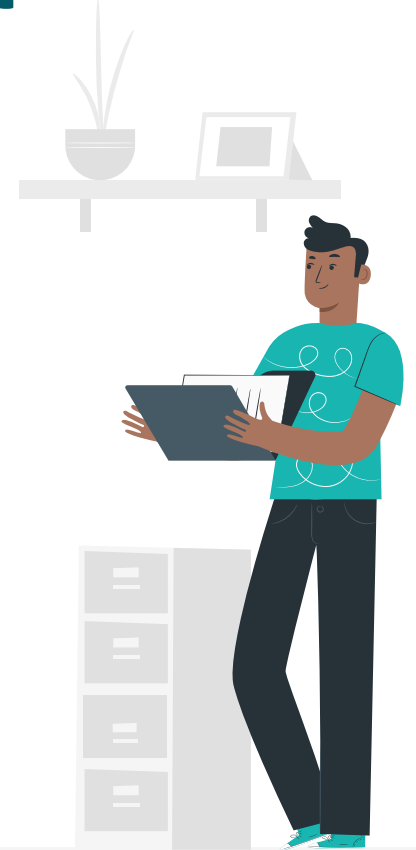
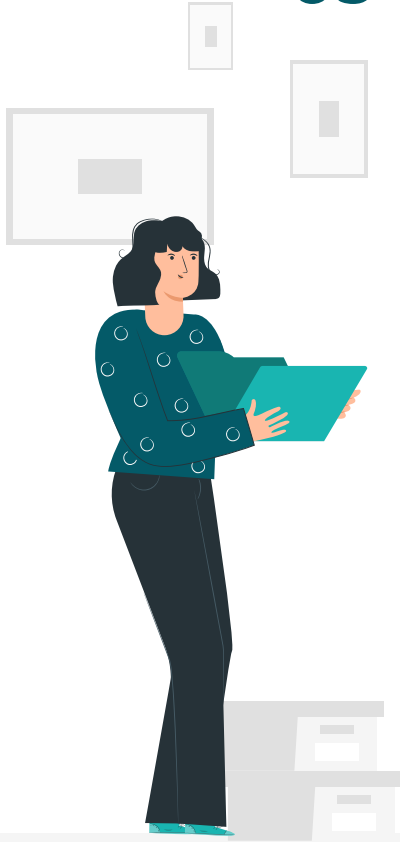
- Use of wind energy to produce electricity in wind farms.
- Current situation of wind energy in Scotland and Spain



03 SOURCES OF INFORMATION

In these links you will find all the information you need for preparing your presentation:

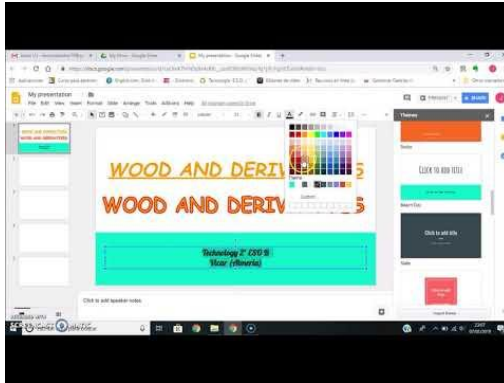
- ❏ [Info about technical issues on Energy sources and energy production.](#)
- ❏ [Info about energy sources in Scotland.](#)





04 SOFTWARE: GOOGLE SLIDES

In the following videos you will be able to learn or remember the basic features for making a presentation with Google Slides. It goes without saying that you can find other great tutorials on the internet.



04 SOFTWARE: GOOGLE SLIDES



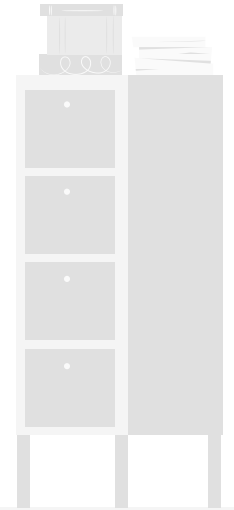
Keep in mind these TIPS in a presentation document:

CHOOSE A NICE THEME
AND DESIGN FOR YOUR
SLIDES.
AND TAKE CARE OF THE
COLOURS AND FONTS.

USE RELEVANT
PICTURES AND WITH
AN APPROPRIATE
QUALITY AND SIZE.

USE EFFECTS TO
DRAW THE
ATTENTION OF THE
AUDIENCE.

DON'T WRITE TOO MUCH
TEXT. INSTEAD, USE
PICTURES, GRAPHS, MIND
MAPS OR DIAGRAMS, ALL OF
THEM WITH AN APPROPRIATE
SIZE.



05 PARTS OF AN ORAL PRESENTATION

We will spend some classes practicing and training the structure of an oral presentation. In the document below you can consult or check it to prepare the exposition.

[Language in an oral presentation.](#)

06 ORAL EXPOSITION

Here you have a collection of videos with tips and examples about how to give an oral presentation:



06 ORAL EXPOSITION



THANKS

Do you have any questions?

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