



Activity P2. Line of action A. Multimedia presentation of the different
types of renewable energies
Porto Sant'Elpidio, Marche region, ITALY



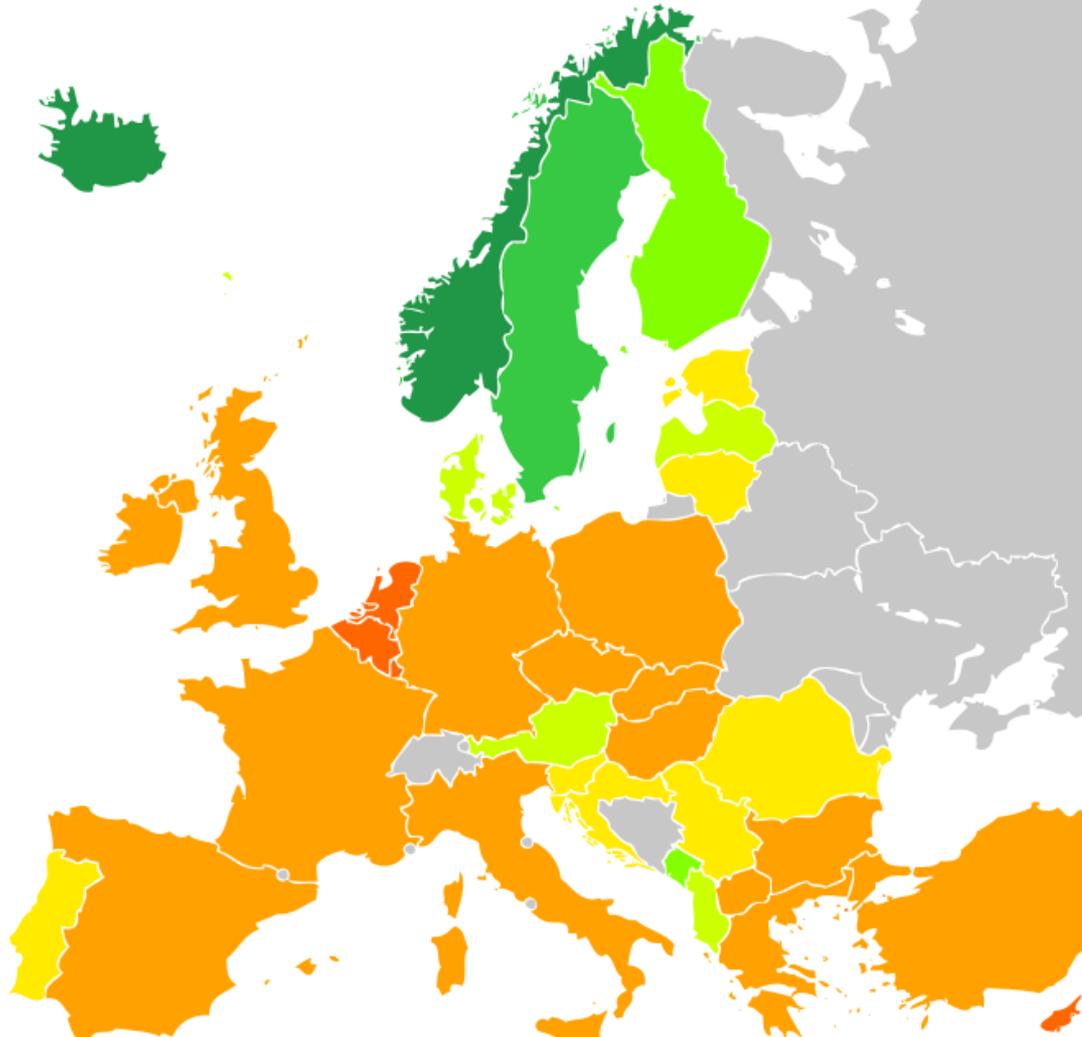
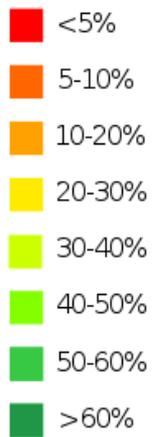
Erasmus+ Renewable energy

Istituto di Istruzione Secondaria Superiore
CARLO URBANI
Via Legnano 17 – Porto Sant'Elpidio (FM)



Students: Emanuele Maria Cocconi, Nadia Di Palma, Riccardo Squadroni

2[^]B liceum - School: IISS Polo Carlo Urbani - Porto Sant'Elpidio



Share of renewable energies in gross final energy consumption in selected European countries (2017)



The solar energy



Solar energy is the energy that comes from the sun.
Potentially the sun is an inexhaustible source of energy.
The sun's rays hit the Earth with a power of 1.350 watts per square meter.





The solar energy



Pros

- It is an energy at low cost, so who decides to rely on this technology will see the electric bill's cost drop and he would be able to resell the surplus energy to the national network;
- It is a clean source of energy so it doesn't pollute;
- It is a versatile source of energy: that means that it is possible to obtain both electrical energy via solar panels, and thermal energy via collectors;

Cons

- The solar panels have got a low return that means that we can not completely take advantage of the solar energy;
- The solar panels request a very wide installation area;
- The installation cost is high;
- Discontinuity: It varies from day to night and from meteorological conditions and the season.



Wind energy



The wind energy is the energy of the wind, meaning that it is the kinetic energy of an air mass in movement utilized to produce electric energy.

It is a renewable and alternative source of energy, it does not produce greenhouse gas and it is a stable source throughout the year.



https://wikiclipart.com/wind-clipart_11120/



<https://www.machinedesign.com/materials/article/21838121/finetuning-slip-rings-for-wind-turbines>



Wind energy



Pros

- It occupies less area than the solar panels;
- It is a source of reversible energy that means that the area occupied by the installation is easily restorable;
- The costs of creation of the installation are contained;
- The machinery stands out for their long duration.

Cons

- Inconstancy of the wind;
- Elevated installation costs;
- Acoustic pollution;
- Visual pollution.

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Thanks
for your
attention



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