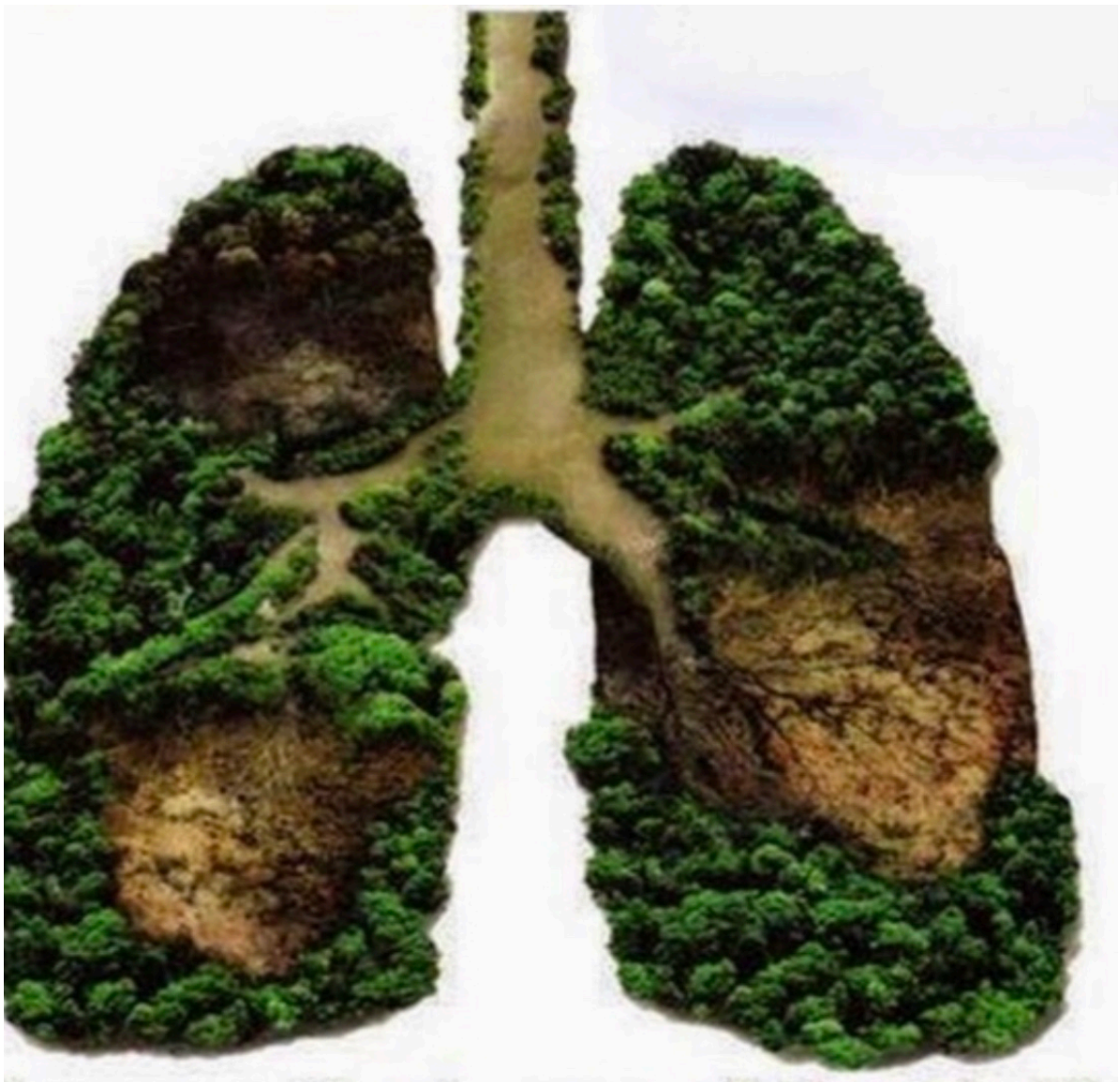


Why Trees?

Trees and plants, through the process of **photosynthesis**, produce the oxygen we breathe. They are the lungs of the earth, destroy them we destroy ourselves. They breathe in carbon dioxide and breathe out oxygen. **Trees** trap CO₂ from the atmosphere and make carbohydrates that are used for **plant** growth. Additionally, they provide habitats for birds and other wildlife.

TREES ARE THE LUNGS OF THE WORLD



The Ecological and Environmental Value of Trees:

- They renew our air supply by absorbing carbon dioxide and release oxygen
- One acre of trees removes up to 2.6 tons of carbon dioxide each year
- They lower air temperature by evaporating water from their leaves
- Their roots stabilise soil and prevent Erosion
- They improve water quality by slowly filtering rain water
- They provide food and shelter for many creatures

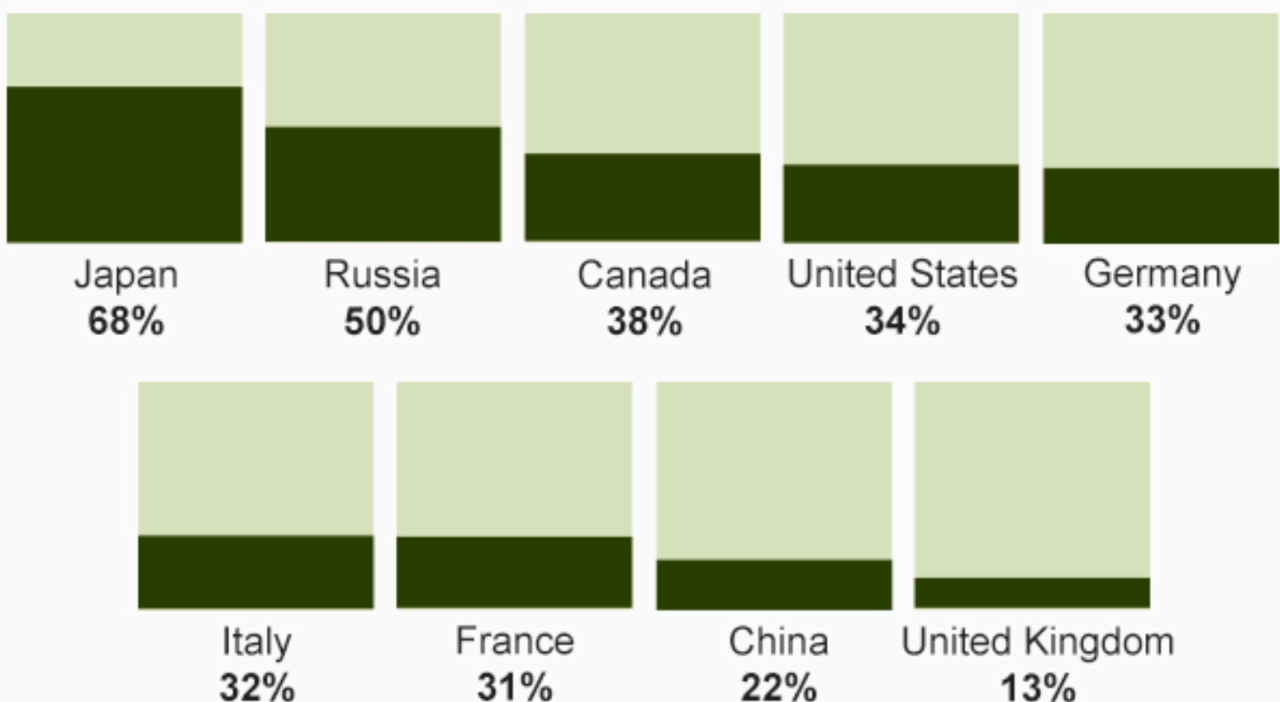
Alarming facts

Globally it's thought deforestation is responsible for about 11% of global greenhouse gas emissions.

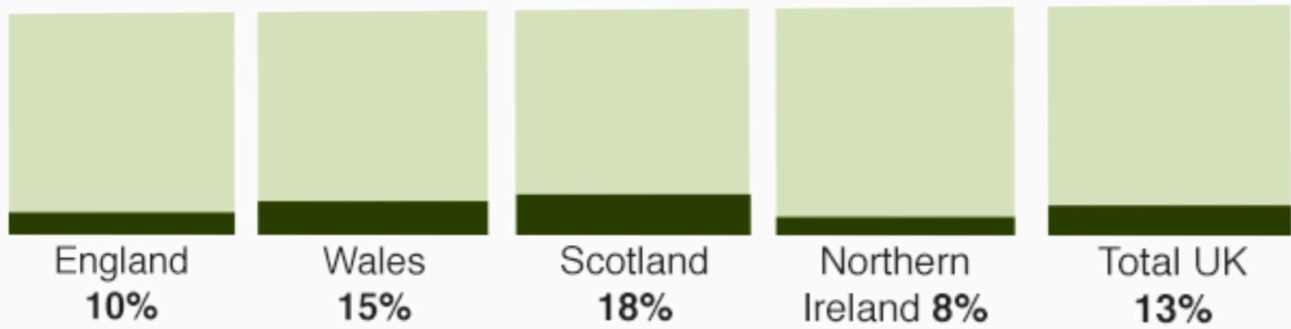
Extra **carbon dioxide** in the **atmosphere** increases the greenhouse effect. More thermal energy is trapped by the **atmosphere**, causing the planet to become warmer than it would be naturally. This **increase** in the Earth's temperature is called global warming .

“With Britain one of Europe’s least wooded countries, we urgently need to see an expansion of nature’s recovery across Britain to match the scale of the threats from accelerating climate change. Rewilding Britain would like to see clear and ambitious targets for increasing woodland cover given the scale of pace and scale of change required. Doubling UK woodland cover from the current 13% to 26% could help absorb 10% of the UK’s current greenhouse gas emissions”. Ref: [Rewildingbritain.org.uk](https://rewildingbritain.org.uk)

Forest coverage global comparison



Woodland coverage by nation



Source: Forestry Commission



What are the experts saying?

- Friends of the Earth stated that the fastest and cheapest way for Britain to suck carbon out of the air would be to double our tree coverage;
- November 2019 the government launched the £50m Woodland Carbon Guarantee Scheme to encourage farmers and landowners to plant more trees in return for payment as those trees grow;
- The National Trust's director general Hilary McGrady announced plans for it to become carbon net zero by 2030 and plant 20 million trees over ten years;
- The Committee on Climate Change estimated that in order to achieve the Government's target of zero carbon by 2050 the U.K. will need to plant another 1.5 billion trees. Put another way 30,000 hectares (116 sq miles) of new trees are needed per year until 2050.

Faced with these statistics you might think that the target is overwhelming and unachievable. Nevertheless if we don't try we certainly won't achieve it. Every little helps hence this initiative. Let's help to make the world and **Newport** a greener and better place.

The aim therefore, is to use donations to purchase trees for planting in Newport's nature reserves and other appropriate places. To this end we have been liaising with the staff at the City Council who are responsible for the trees in and around the City. All trees purchased will be native to the U.K. selected from the following:

Pedunculate oak; Ash; Beech; Sycamore; Hazel; Hawthorn; Birch; Blackthorn;

Rowan; Alder; Elder; Horse chestnut; Maple.

Initially we will looking to purchase some Welsh varieties of fruit trees to plant as part of the restoration of the old orchard located at the Alltyryn Nature Reserve.