

In this activity participants are asked to match human activities with the greenhouse gas emissions that are produced by it. You will need to list the three main anthropogenic greenhouse gasses on a flip chart or piece of paper. The answer sheet here includes the Global Warming Potential over 100 years of each gas which may be of interest. ([https://www.ipcc.ch/publications\\_and\\_data/ar4/wg1/en/ch2s2-10-2.html](https://www.ipcc.ch/publications_and_data/ar4/wg1/en/ch2s2-10-2.html))

Distribute the cards and ask people to place their activity under the greenhouse gas they think it produces. There are several of some activities as they result in more than one greenhouse gas.

<b>Agriculture - Livestock</b>	<b>Natural Gas – combustion</b>
<b>Agriculture – Arable</b>	<b>Agriculture – Arable</b>
<b>Transport</b>	<b>Transport</b>
<b>Landfill</b>	<b>Coal fired power station</b>
<b>Deforestation</b>	<b>Coal fired power station</b>
<b>Coal Fired PowerStation</b>	<b>Transport</b>
<b>Natural Gas - combustion</b>	<b>Natural Gas – Combustion</b>

Answers:

<b>CO2 (1 GWP)</b>	<b>CH4 (21 GWP)</b>	<b>N2O (310 GWP)</b>
Transport – produced through fuel combustion	Agriculture (Livestock) – Letting off	Coal fired PowerStation- small amounts
Agriculture (Arable) – burning of fossil fuels and change in land use	Landfill – decomposition of organic waste	Transport– small amounts produced through fuel combustion
Deforestation – trees store of CO2 cutting down releases CO2	Coal fired power station – small amounts	Natural gas combustion
Coal Fired powerstation	Transport – small amounts produced through fuel combustion	Agriculture (arable) – released from soils following the application of nitrogen fertiliser (manufactured and organic) and soil disturbance
Natural gas combustion	Natural gas combustion	