

Explanatory Notes to the Data on BWCE Renewable Energy Generation

All CO₂ figures are in tonnes of CO₂ equivalent (CO₂e), meaning that they take into account global heating potential of all greenhouse gases, but expressed in terms of the global heating potential of one unit of CO₂.

Data assumptions on electricity demand during period from a number of typical homes

Assumes 2,700 kWh per year consumed by a typical home without electric storage heaters. From Ofgem <https://www.ofgem.gov.uk/average-gas-and-electricity-usage>.

Data assumptions on tonnes CO₂e

Assumes 0.22535 kgCO₂e/kWh generated. Includes losses from transmission and distribution. From <https://www.gov.uk/government/publications/greenhouse-gas-reporting-conversion-factors-2024>.

Data assumptions on number of journeys from Bath to Edinburgh via train

Assumes 0.03546 kgCO₂e/passenger km for national rail travel. From <https://www.gov.uk/government/publications/greenhouse-gas-reporting-conversion-factors-2024>.

Data assumptions on money retained in the local area

Assumes that approximately 35% of BWCE's annual income is retained locally and is spread pro rata across the year in line with the level of generation in the year to date. Within a traditional commercial project, it is assumed that virtually all project income is exported out of the area.