

# Software.

9 years til our global carbon budget is spent.  
1.5c temperature rise tipping point is crossed.  
We need to leave fossil fuels in the ground.

Software is the heart of digitisation.  
Annual Global ICT spend \$4.9tn.  
The sector created 1.4bn tonnes CO2e or 2.5% of global emissions in 2020. And consumed 4% of global energy.  
It's the same as all the air travel taken in the world in a year.

Data centres use about 1% of global electricity.  
That's 160TWh of energy. The same as powering 32 million homes.

An Outlook email ...

**17g  
CO2e**

Long email, 10 minutes to write  
Source: Mike Berners-Lee

An hour of YouTube  
video ...

**56g  
CO2e**

Carbon Impact of Video Streaming  
Source: CarbonTrust

A Google search ...

**8.2g  
CO2e**

5 minutes web browsing  
Source: Mike Berners-Lee

A Visa transaction ...

**0.45g  
CO2e**

Bitcoin energy consumption Index  
Source: Digiconomist

A Single Bitcoin transaction ...

**853kg  
CO2e**

Bitcoin energy consumption Index  
Source: Digiconomist

**Planet friendly software** can make a difference.

**GoCodeGreen**