

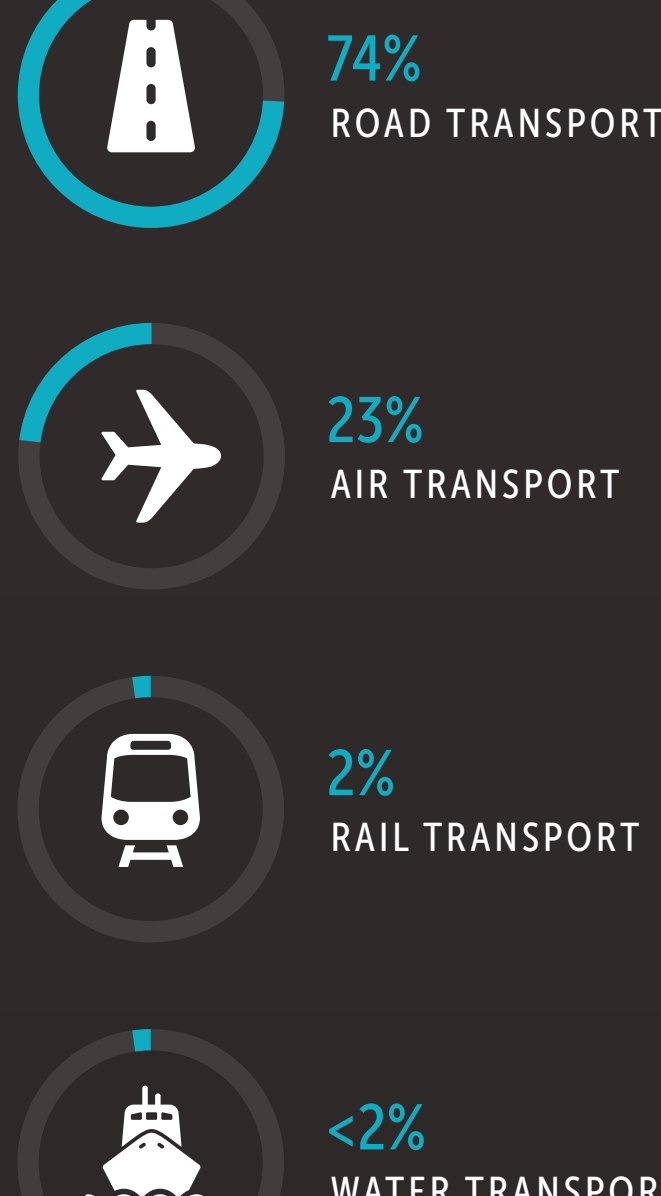
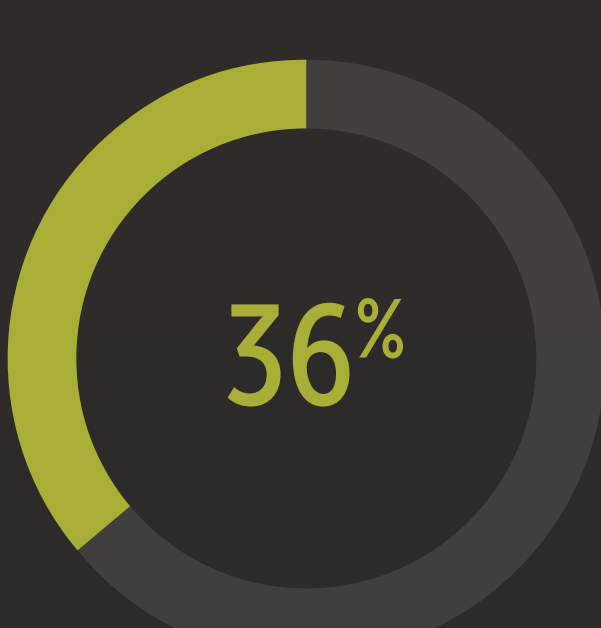
## How Energy Efficient is Your Business?

Where does your sector fall on the energy efficiency scale; is it amongst those starting to invest in a sustainable future, or has it already significantly reduced its emissions over the last 30 years?

Our infographic takes a look at how much energy UK businesses are really consuming, including the best and worst energy consuming sectors.

### WHICH SECTOR CONSUMED THE MOST ENERGY IN 2013?

#### TRANSPORT

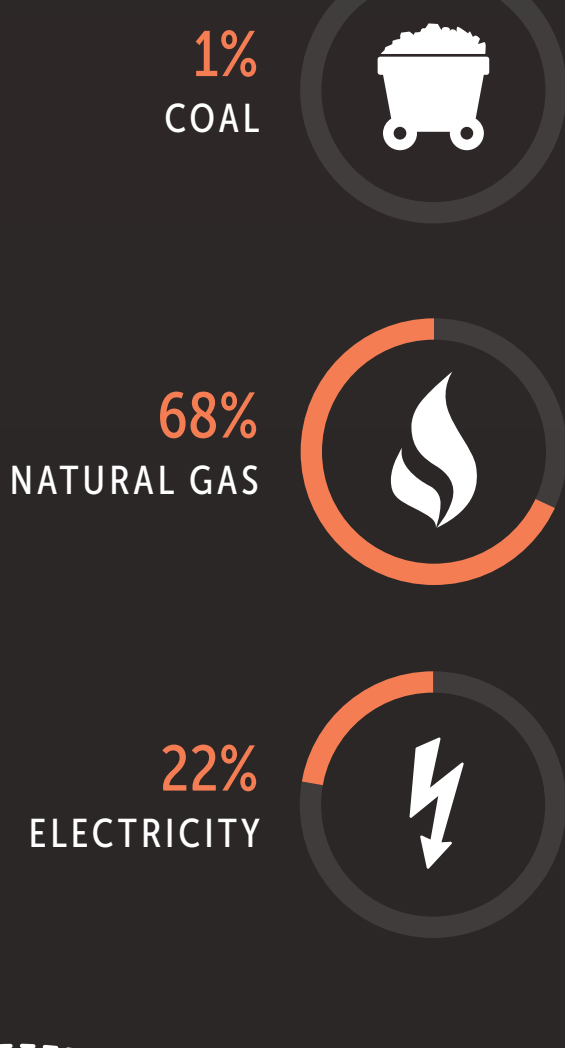
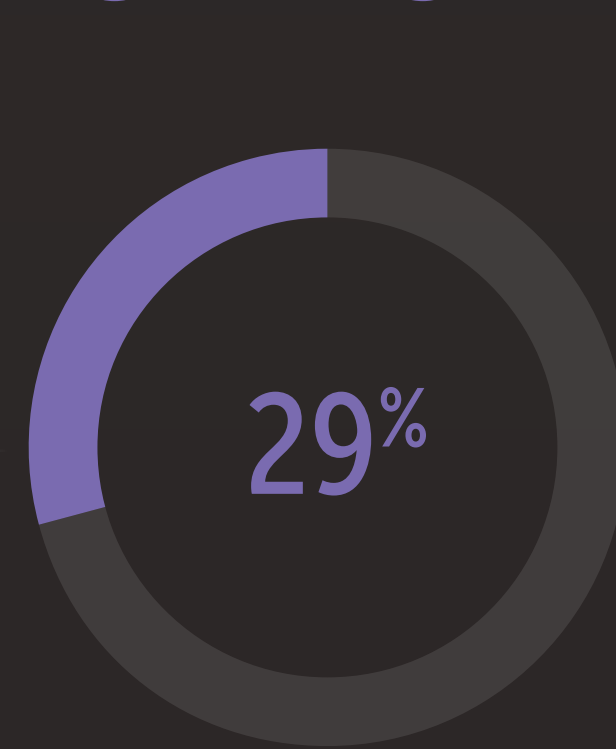


Between 1990 and 2013 the domestic and industrial sectors increased the amount of energy that was consumed for transport:

- Domestic usage increased by 11%
- Industrial usage increased by 14%

In 2012 it was estimated that 63% of all transport energy demand was from the domestic sector

#### DOMESTIC

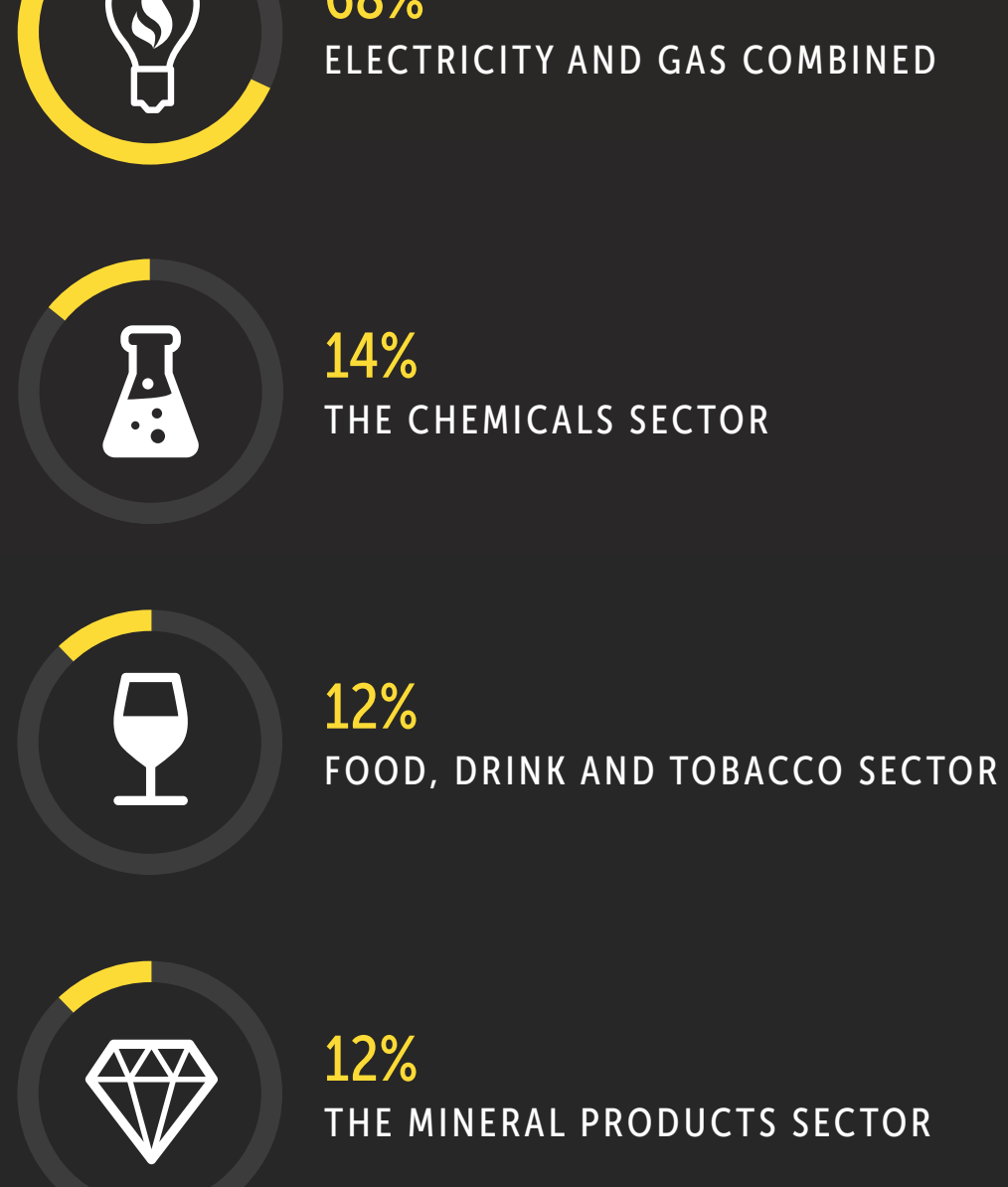
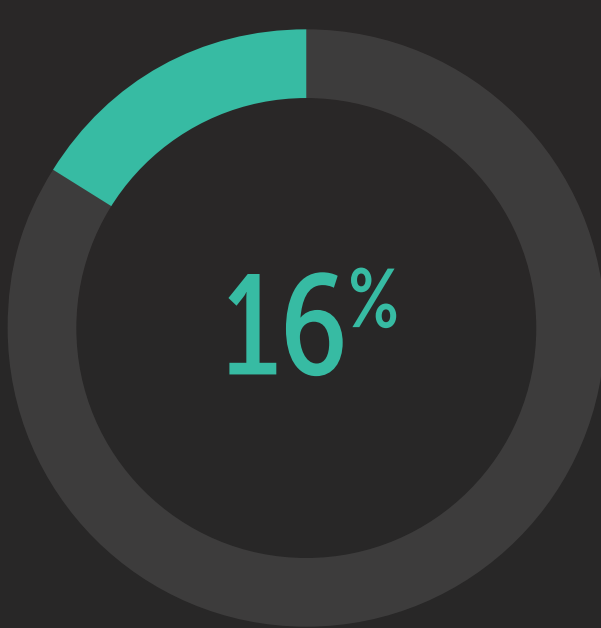


Since 2000, energy consumption has fallen:

- By 24% per unit of household disposable income
- By 16% per household
- By 14% per person

The industrial sector was responsible for 16% of the nation's total energy usage in 2013; 22% less than in 1988

#### INDUSTRIAL



Industrial sector decreases between 1990 and 2013:

- Consumption by the steel and iron sector fell by 81%
- Consumption by non-ferrous metals sector (such as Aluminium and Copper) fell by 57%

The main efficiency gains in the industrial sector between 2000 and 2012 were in the:

- Paper, printing and publishing sector
- Mechanical, electrical and instrument engineering sector

### How do businesses feel about reducing their energy efforts?

A report carried out by the Carbon Trust discovered that:

70% of global business leaders are confident that the combined efforts of consumers, governments and investors will forge the path to a sustainable future

76% of businesses believe that climate change will have a direct impact on their net earnings

84% see a business opportunity in an environmentally sustainable future

50% believe they would have to fundamentally change their products, services and business model in order to drive strong environmental sustainability

99% of those who have compared themselves to competitors on environmental sustainability believe that they are average within their sector

### Energy consumption in the digital sector...

The digital industry is growing at a ferocious rate, as is the amount of energy that its data centres use.

**GREENPEACE** pays close attention to the energy usage of leading global IT brands, giving the big players a grade according to four factors:

- 1 ENERGY TRANSPARENCY
- 2 RENEWABLE ENERGY COMMITMENT AND LOCATION
- 3 ENERGY EFFICIENCY AND MITIGATION
- 4 THE DEPLOYMENT AND ADVOCACY OF RENEWABLE ENERGY

Total global power usage has increased by 56% since 2005. THAT'S 31 GIGAWATTS!

### What did the digital giants score?

**APPLE**  
Received an **A-** for its innovative and aggressive progress, with 100% renewable energy for more than a year

**FACEBOOK**  
Received an **A-** for its 25% renewables goal by 2015 and huge investments in wind farms

**Microsoft**  
Received a **C** but its growing efforts were recognised

**amazon web services**  
Received an **F** as a result of its data centres being located in Northern Virginia and therefore powered by coal, gas and nuclear energy

**Google**  
Received a **B** for its collaborations with utilities and is 34% powered by cleaner energy

The UK ranks sixth most energy efficient amongst the world's 31 largest economies

Sources:  
[https://www.gov.uk/government/uploads/system/uploads/attachment\\_data/file/337454/ecuk\\_chapter\\_2\\_transport\\_factsheet.pdf](https://www.gov.uk/government/uploads/system/uploads/attachment_data/file/337454/ecuk_chapter_2_transport_factsheet.pdf)  
[https://www.gov.uk/government/uploads/system/uploads/attachment\\_data/file/338662/ecuk\\_chapter\\_3\\_domestic\\_factsheet.pdf](https://www.gov.uk/government/uploads/system/uploads/attachment_data/file/338662/ecuk_chapter_3_domestic_factsheet.pdf)  
[https://www.gov.uk/government/uploads/system/uploads/attachment\\_data/file/337456/ecuk\\_chapter\\_4\\_industrial\\_factsheet.pdf](https://www.gov.uk/government/uploads/system/uploads/attachment_data/file/337456/ecuk_chapter_4_industrial_factsheet.pdf)  
<http://visual.ly/clean-cloud-power-and-green-data-centres>  
<http://www.greenbiz.com/blog/2014/04/02/google-apple-facebook-good-greenpeace-energy-ratings>  
<http://www.carbontrust.com/resources/reports/advice/titans-or-titanics>  
<https://www.switchmybusiness.com/business-energy/business-dual/uk-industrial-energy-consumption-falls/>