

[nikkijones5@hotmail.com](mailto:nikkijones5@hotmail.com)

Aiming1point5degrees.co.uk

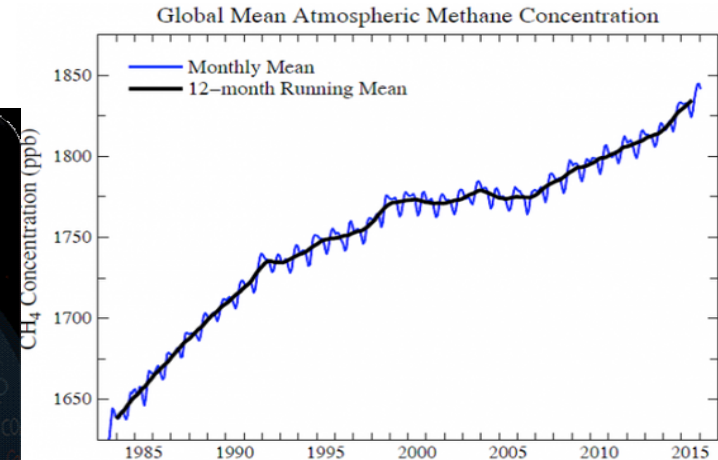
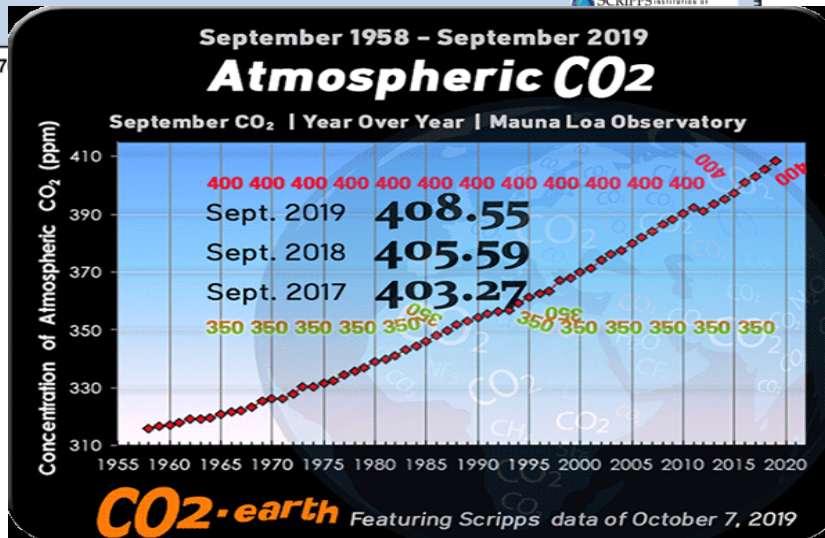
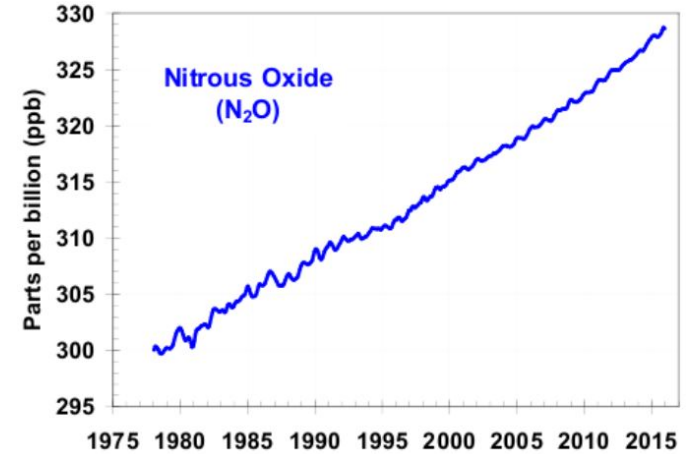
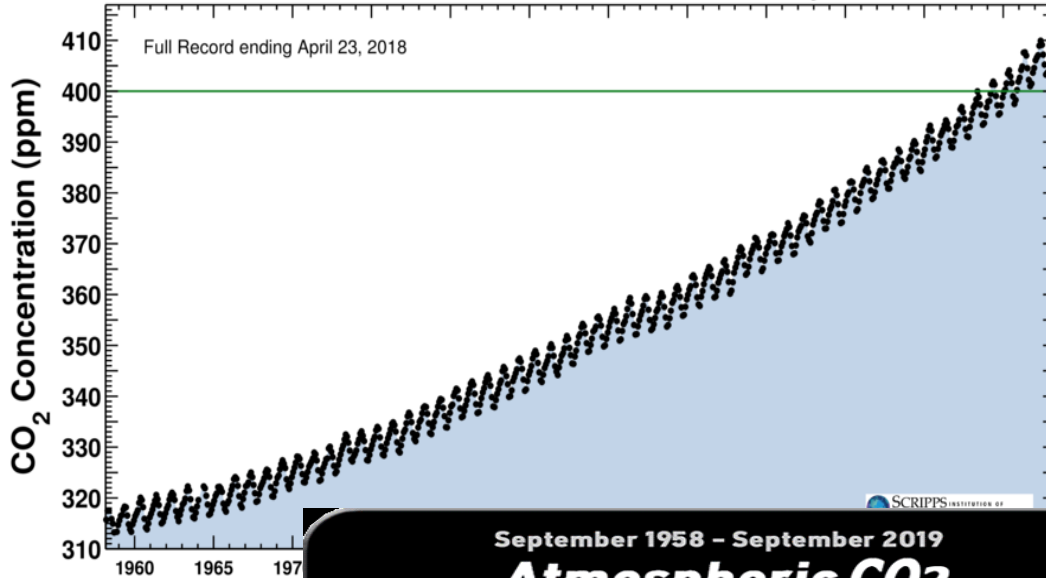


AVON  
NEEDS  
TREES

# '..... a finite and closing window...'

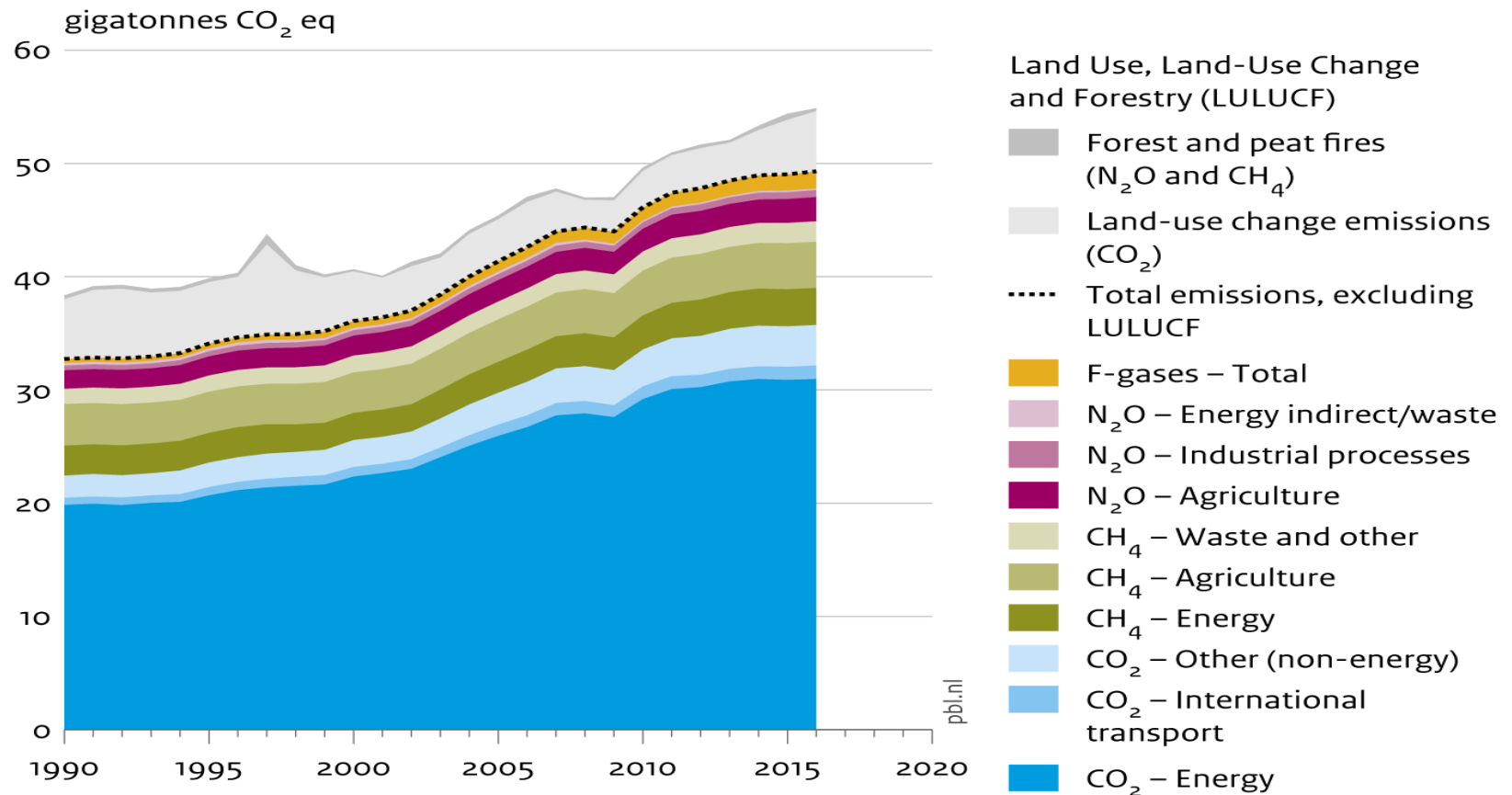
Latest CO<sub>2</sub> reading  
April 21, 2018  
Carbon dioxide concentration at Mauna Loa Observatory

**411.21 ppm**



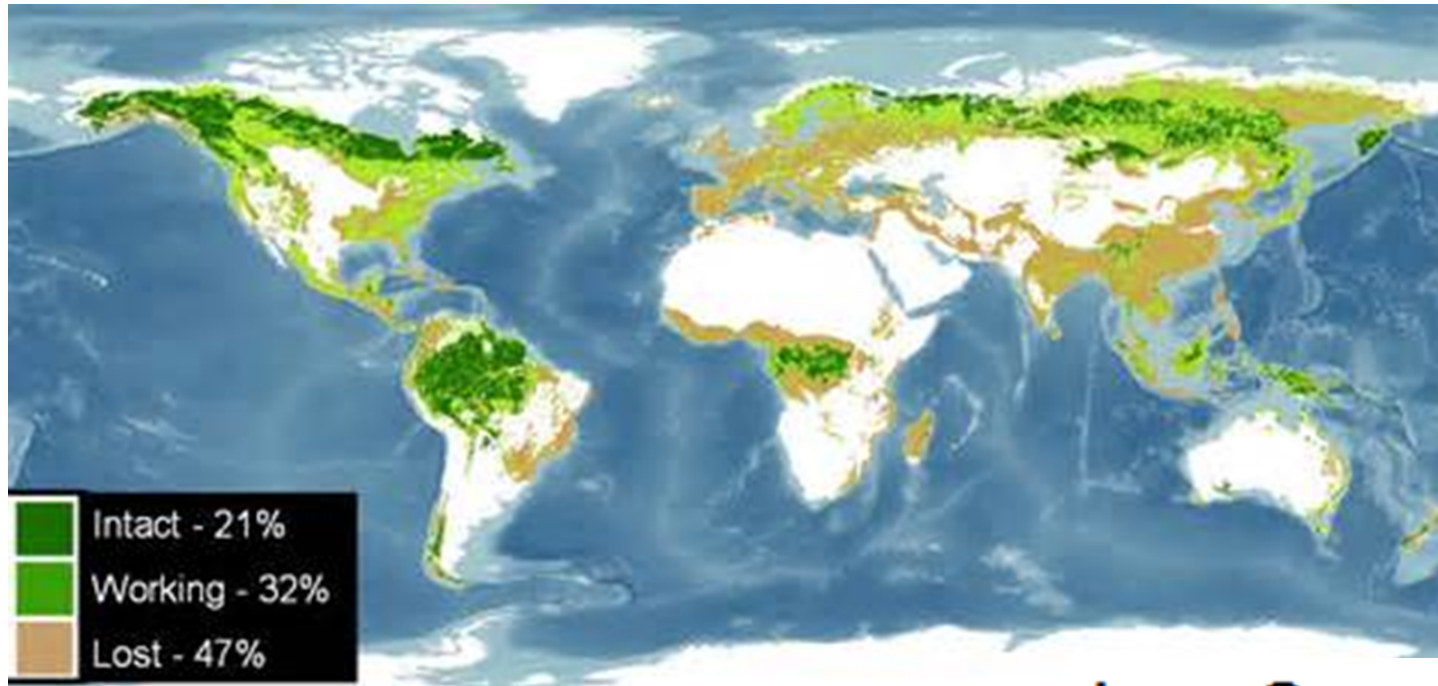
# Big rise is greenhouse gases from energy

Global greenhouse gas emissions, per type of gas and source, including LULUCF



Source: EDGAR v4.3.2 (EC-JRC/PBL 2017); Houghton and Nassikas (2017); GFED 4.1s (2017)

# The World's Forests



Just 3 tn left.

Still losing 10bn trees per year

**Over 1 Trillion Trees Need To Be Planted in the Next 10 Years**

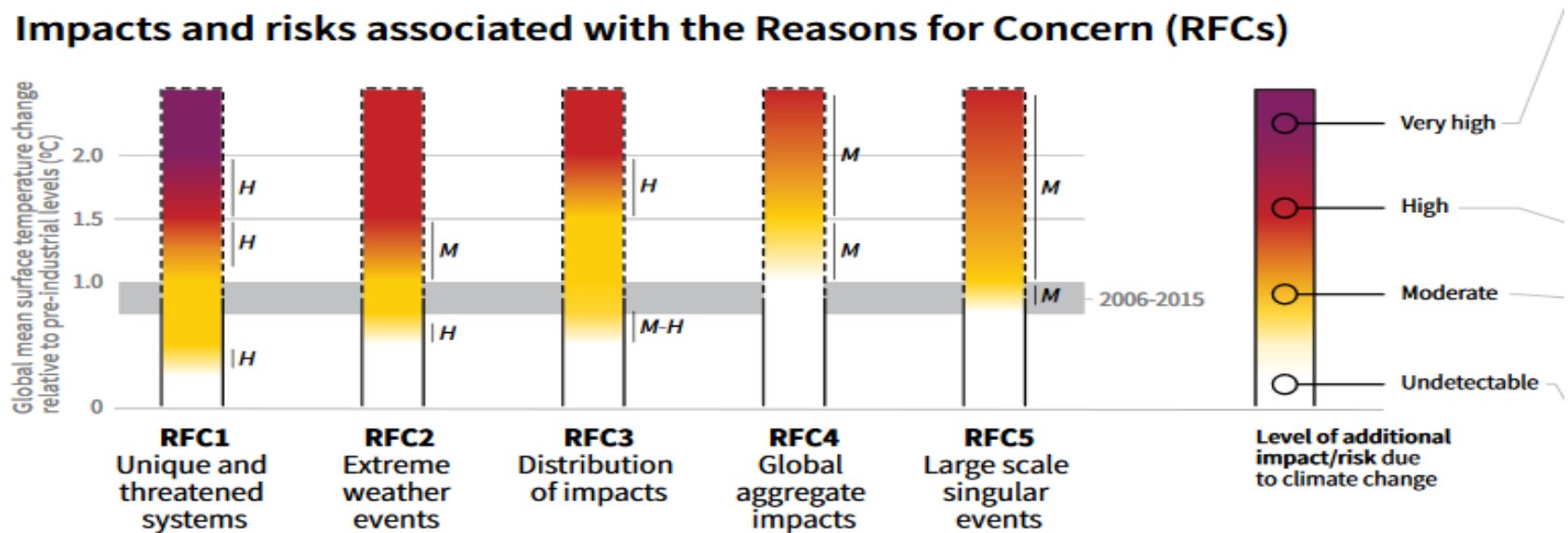
# A third of topsoil lost in last 100 years - 60-80% organic matter



# IPCC 1.5 degrees report

Five Reasons For Concern (RFCs) illustrate the impacts and risks of different levels of global warming for people, economies and ecosystems across sectors and regions.

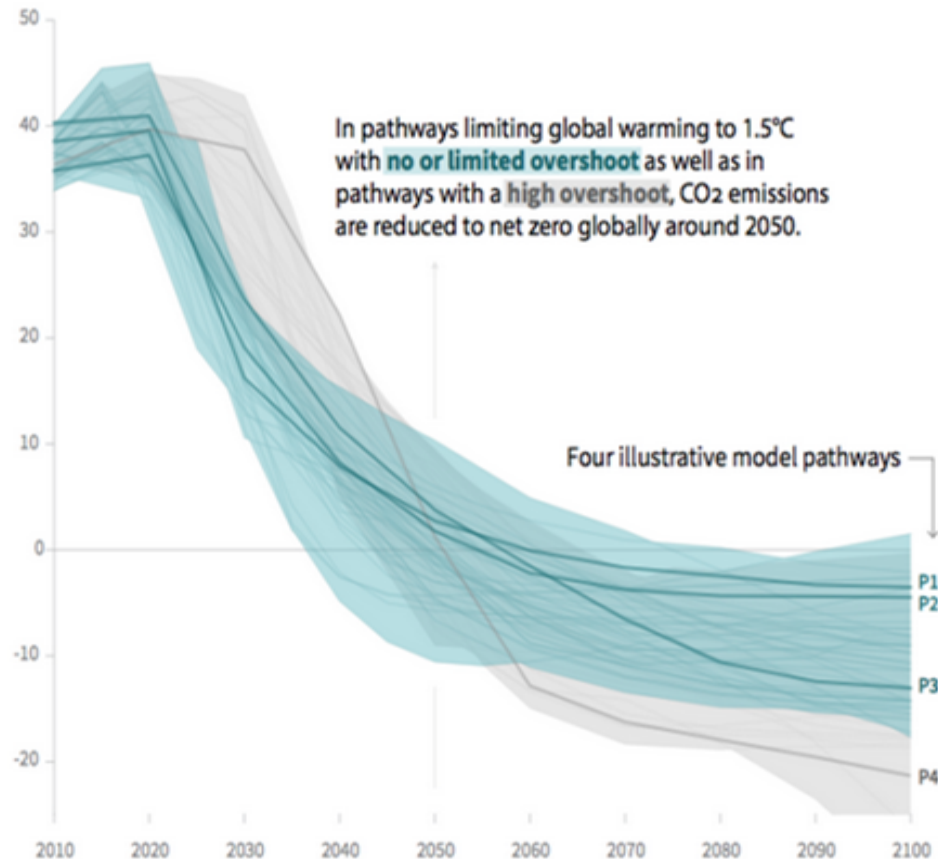
## Impacts and risks associated with the Reasons for Concern (RFCs)



# Budget for 1.5 degrees - with no 'overshooting' or geo-engineering

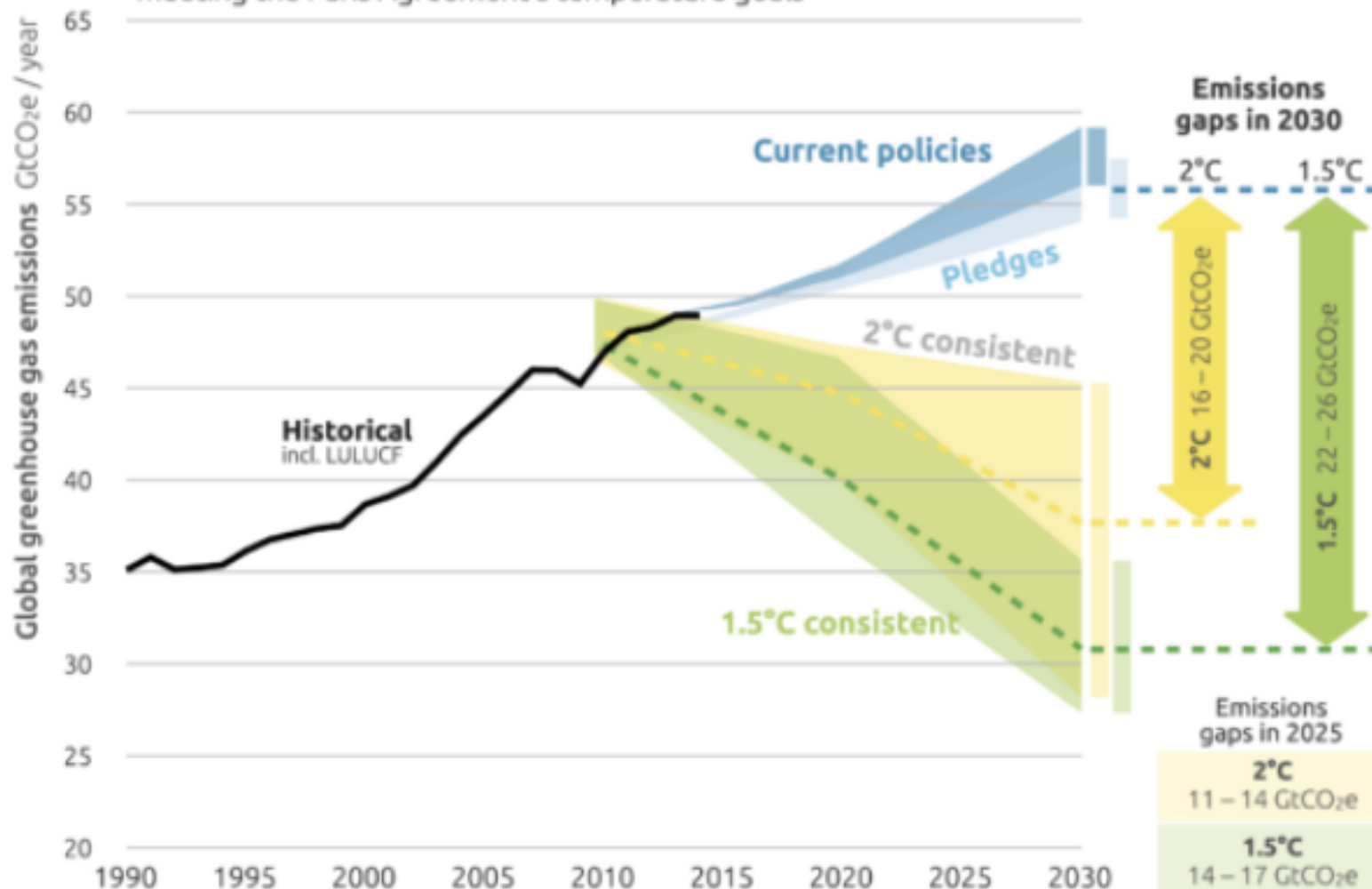
## Global total net CO<sub>2</sub> emissions

Billion tonnes of CO<sub>2</sub>/yr



# 2030 EMISSIONS GAPS

CAT 2017 projections and resulting emissions gaps in meeting the Paris Agreement's temperature goals



The "gap" range results only from uncertainties in the pledge projections. Gaps are calculated against the mean of the benchmark emissions for 1.5°C and 2°C.



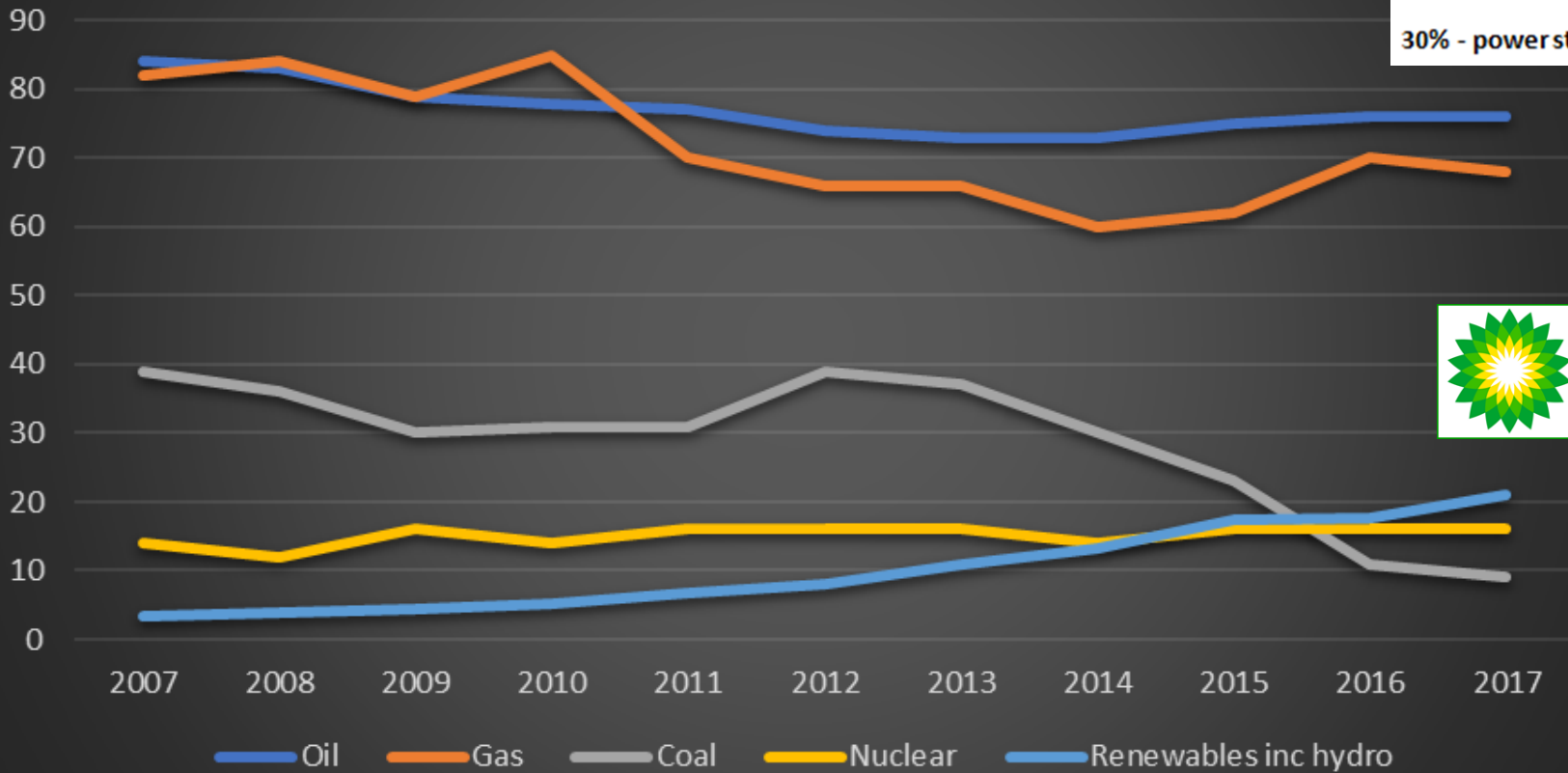
# UK fuel consumption 2007-17 (Mtoe)

UK Gas Use 2016

40% - residential heating

30% - industry

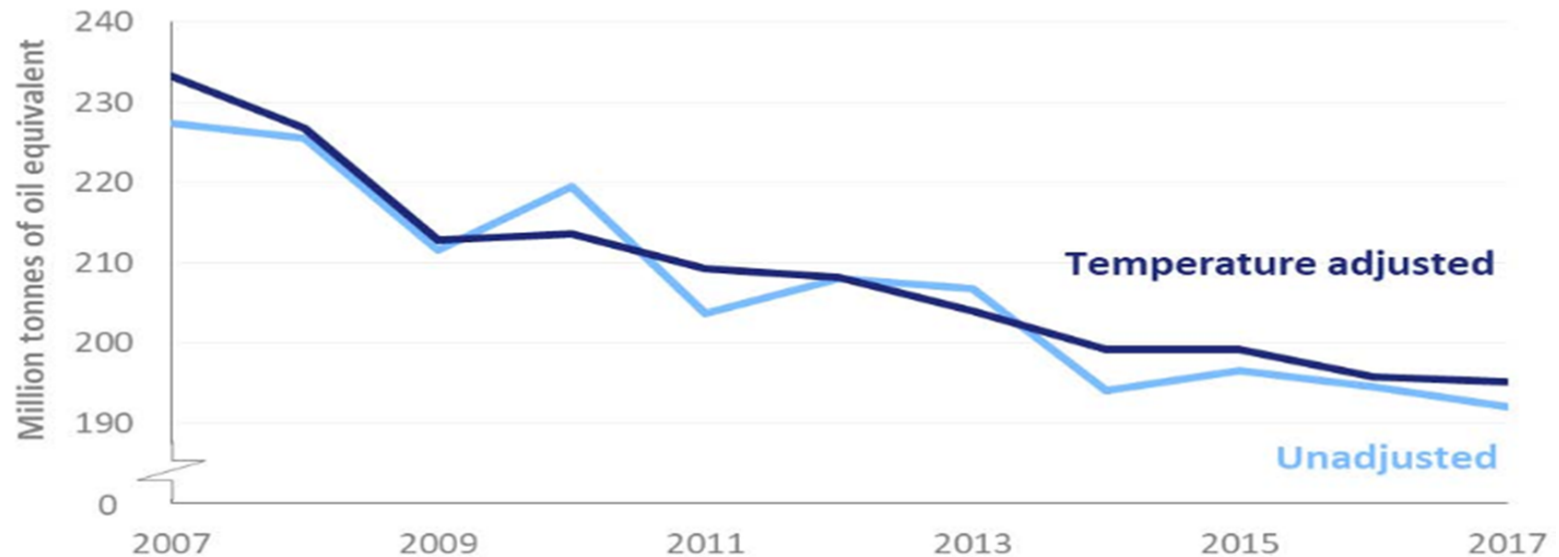
30% - powerstations



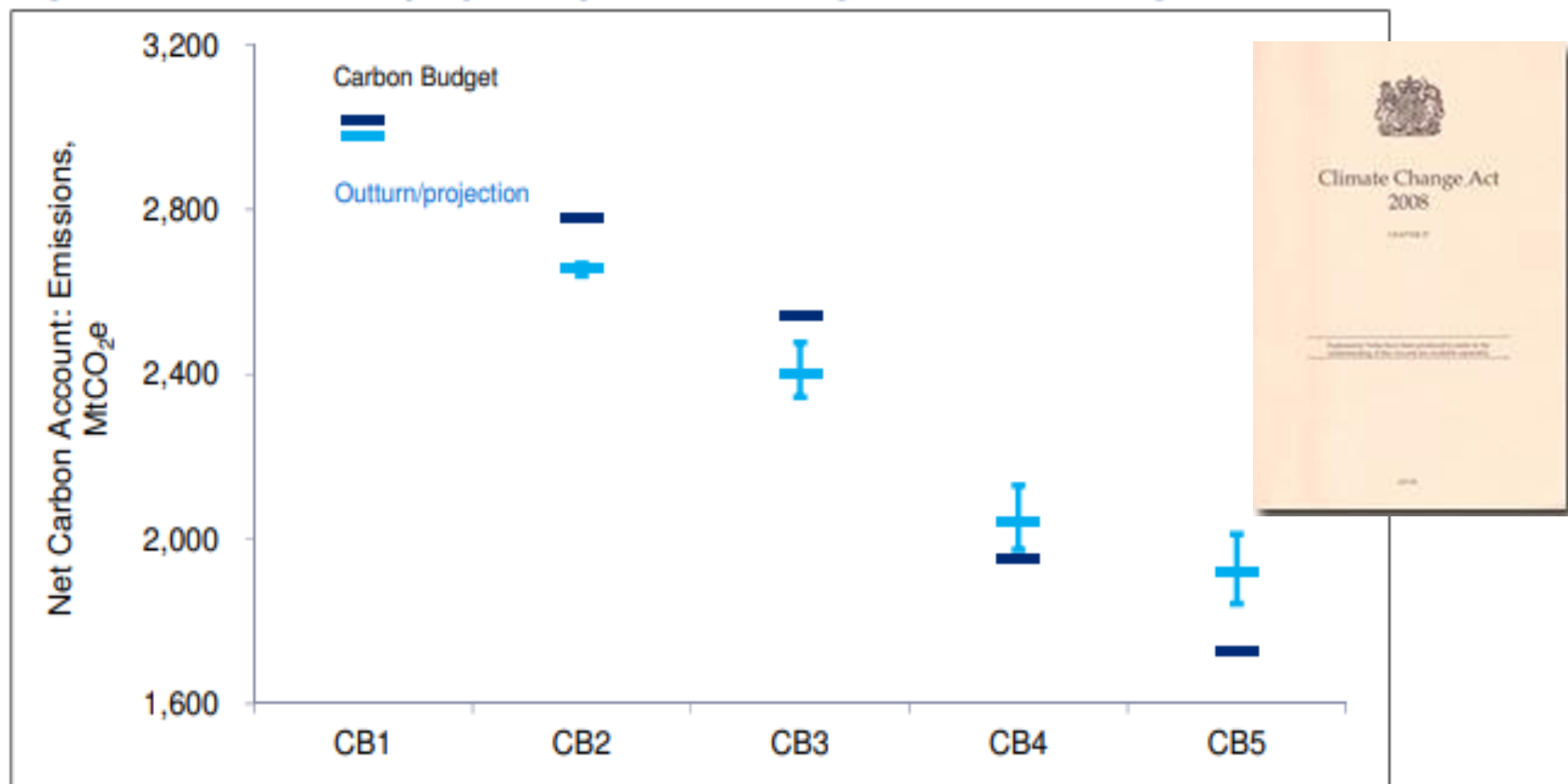
# Is our energy use going down?

Digest of UK Energy Statistics 2018

**Chart 1.3: Primary energy consumption**



**Figure 2.2: Actual and projected performance against carbon budgets, MtCO<sub>2</sub>e**



*Vertical bars show uncertainty in the projections and indicate 95% confidence intervals for the central reference scenario.*

# Climate Change Committee warns on methane losses...

## 2019 UK High Court says gas 'not clean

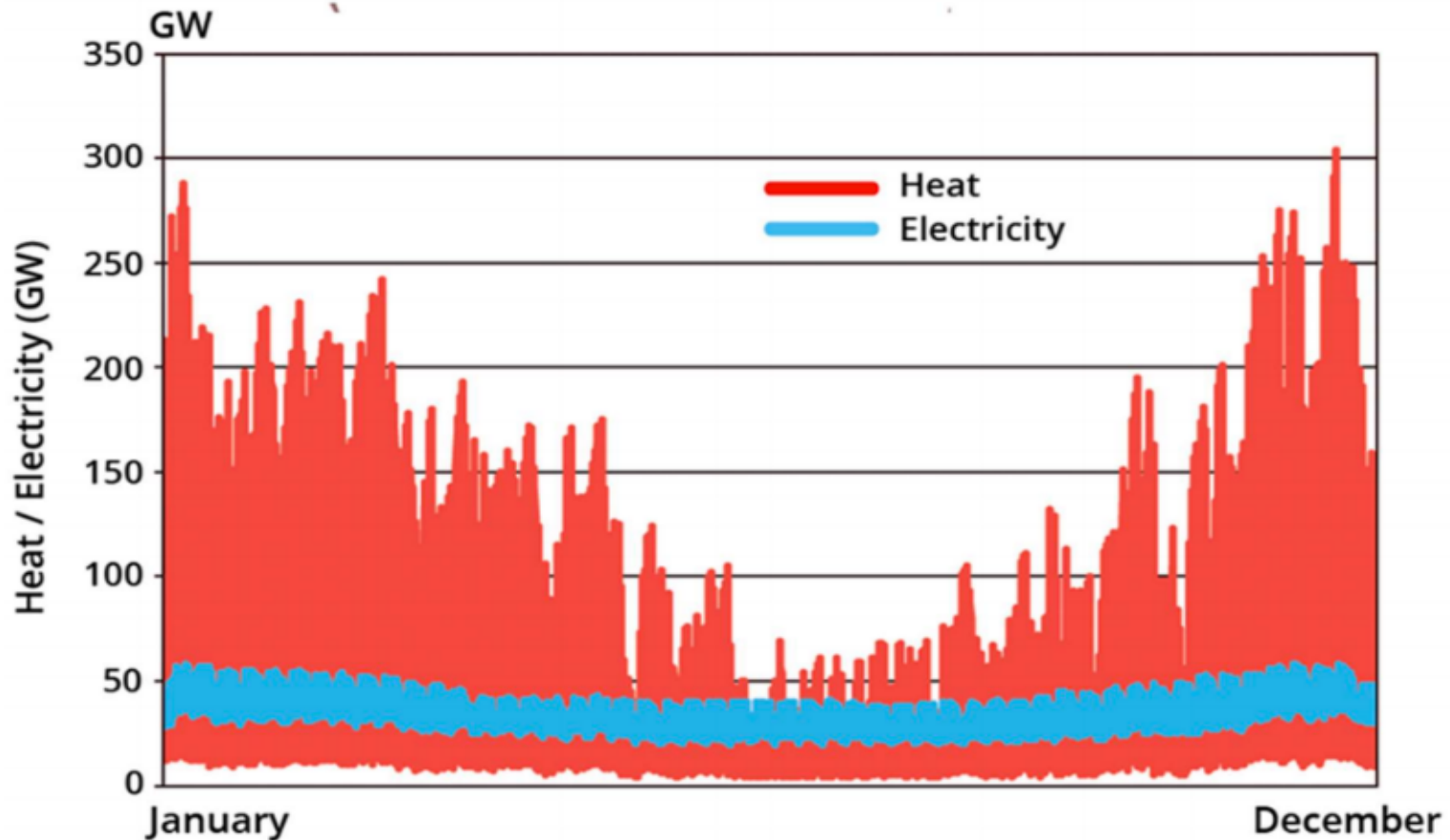
4.36 The relationship between total UK gas consumption shown in this Table 4.3 and total demand for natural gas given in the balance Table 4.1 is illustrated for 2014 as follows:

Total UK consumption (Table 4.3)	GWh 731,826
<i>Plus producers' own use</i>	50,087
<i>Plus operators' own use</i>	<u>3,932</u>
	<i>Equals</i>
Consumption of natural gas	<u>785,846</u>
<i>Plus upstream losses and metering differences</i>	-
<i>Plus downstream losses – leakage assessment</i>	1,070
<i>Plus downstream losses – own gas use</i>	30
<i>Plus downstream losses – theft</i>	147
<i>Plus downstream losses – iron and steel losses</i>	2
<i>Plus downstream metering differences</i>	<u>5,251</u>
	<i>Equals</i>
Total demand for natural gas (Table 4.1)	792,346

# World is awash with LNG...



# Heating - our biggest challenge?



- ‘We are in a battle for our lives.’

30<sup>th</sup> June 2019 – Statement from Secretary General of UN to Climate Summit Preparatory Meeting



‘The climate crisis is our third world war.’

Stiglitz, June 2019



‘Yes, we can afford it..... We must afford it. Our lives and civilisation as we know it are at stake, just as they were in the second world war.’



[nikkijones5@hotmail.com](mailto:nikkijones5@hotmail.com)

Aiming1point5degrees.co.uk



AVON  
NEEDS  
TREES