

Climate Change and Energy

*A Scottish, and world, context
and perspective*



A world context- UN Paris Agreement December 2015

195 Nations have:

Committed to:

'Holding the increase in the global average temperature to well below 2° C above pre- industrial levels and to pursue efforts to limit the temperature increase to 1.5°'

Recognised 1.5° would:

'Significantly reduce the risks and impacts of climate change'

*BUT It turns on **voluntary contributions***

We are fast approaching 1.5°

No sanctions

The first review is 2018 (and 5 yearly thereafter)

In a nutshell



*The **MORE** we do now the **lower** the temperature rise, the **lower** the impacts, the **lower** the financial cost and the **lower** the likelihood of irreversible and unanticipated change.*

***‘The Tipping Point’**- At a certain point the changes to our planet produced by the warming will produce more warming leading to more negative changes taking us to a point of no return.*

What more needs to be done?

*Paris was a step on the way. There is **momentum** for change.*

*But will things change **fast enough**? There's an **urgency***

People are suffering and will suffer much more

The possibilities alter with politics/technology/people/events

The Scottish context and perspective?

41% reduction on emissions from 1990 levels (at 2015)

50% plus of electricity from renewables

Target of 50% of all energy from renewables by 2030

*The **Climate Change Plan**- detail on action*

*The **Climate Change Bill**- big picture*

Targets- reductions from 1990 levels	2020	2030	2050
The Climate Change Act 2009	42%		80%
The Climate Change Bill due out 2018	56%?	66%?	90%?
What science and justice require	56%	77%	Nett zero

Scotland showing the way?

Good things have happened but we need:

Better targets

Better processes- Make future finance budgets for Scotland consistent with delivering required emission reductions

Greener Farming- with a nitrogen budget in place by 2020

Greater Energy Efficiency- all homes at least EPC 'C' by 2025

Cleaner Transport- phase out sale of fossil fuel cars by 2030

How can the UK and EU cooperate to make it happen?

Political honesty about costs and benefits

Consistent long term regulation and priorities

Sharing information and innovation

A positive vision

A just transition to a sustainable future

Adopting and financing new technologies

- solar,
- wind,
- storage/transmission
- transport/heating/land use

The new markets- China, India, Europe, even Trump's USA!

The speed of change- the age of social media and instant communication

