

# Net Zero by 2045

## The Challenge



In response to the  
IPCC report, Lib Dems  
are putting together a  
policy to get to net  
zero greenhouse gas  
emissions by 2045

POSSIBLE SCENARIO PROVIDED BY WWF	Annual emissions (MtCO <sub>2</sub> e)				
	Actual		Proposed		
	1990	2017	2030	2040	2045
<b>Buildings</b>	94	89	67	30	12
<b>Power (Generation of Electricity)</b>	278	102	17	10	6
<b>Surface transport</b>	122	110	59	30	14
<b>International aviation and shipping, UK share</b>	24	44	35	27	23
<b>Industry</b>	174	109	81	46	31
<b>Other non-CO2</b>	??	31	15	9	8
<b>Agriculture</b>	54	49	40	26	24
<b>Total without negative emissions</b>	823	534	314	178	118
<b>Negative emissions</b>	0	-2	-21	-80	-120
<b>Total including negative emissions</b>	823	532	293	98	-2
<b>Reduction from 1990</b>	0%	35%	64%	88%	100%

Sectors where we know we can cut emissions to zero or almost zero:

- 1) Electricity generation
- 2) Surface transport
- 3) Heating

Sectors where we can reduce emissions but not reduce them to zero with current technology:

- 1) Aviation
- 2) Industry
- 3) Agriculture

# Negative Emissions:

- 1) Forests
- 2) Technological Solutions inc. DACCS

We need **interim targets** so that we do not get complacent and fall behind what needs to be done



## Political Challenges:

- 1) Inertia
- 2) Working with business
- 3) Most importantly, a transition that is socially just