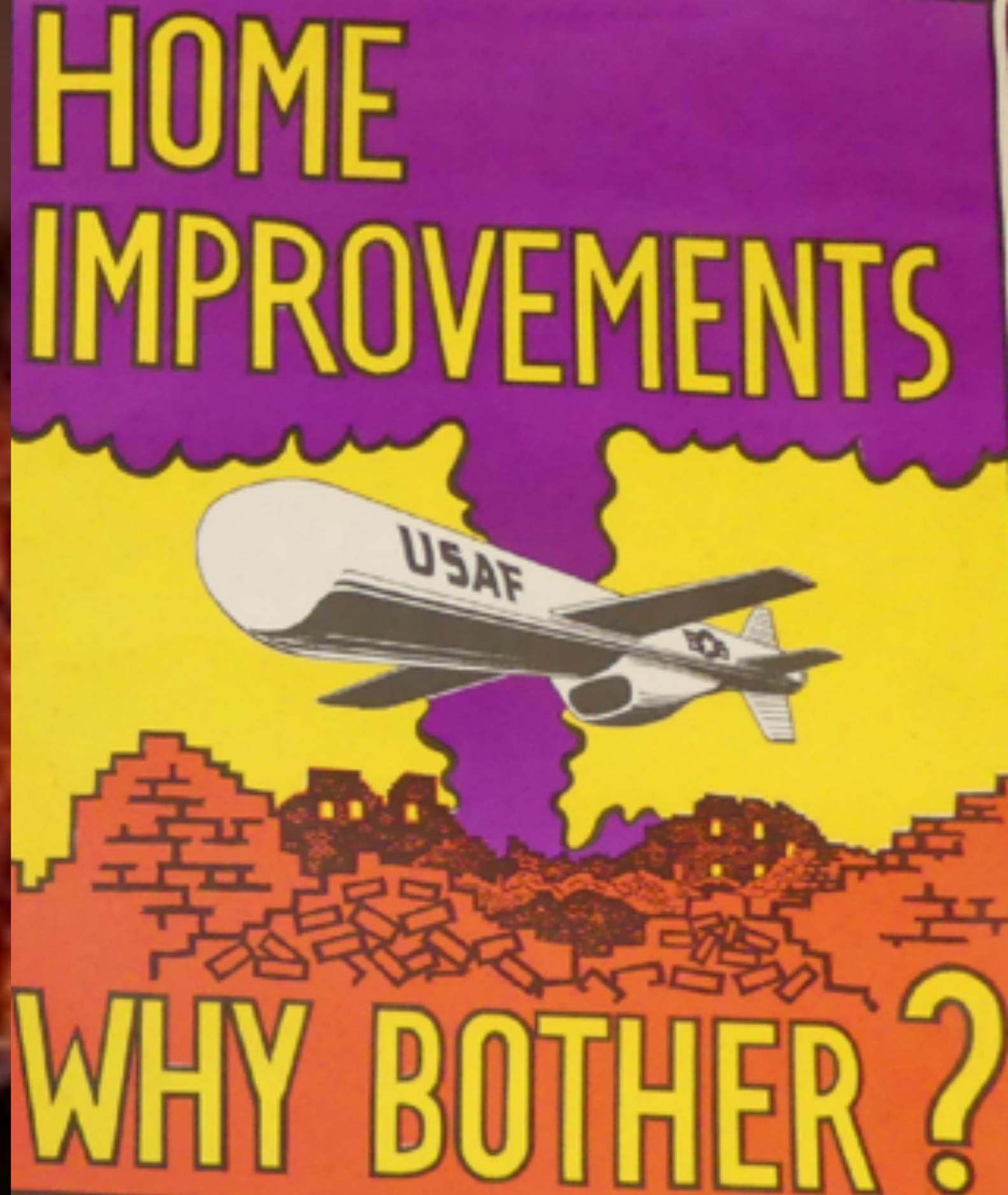


HOME IMPROVEMENTS



WHY BOTHER?

**Retrofit ?
Why Bother ?**



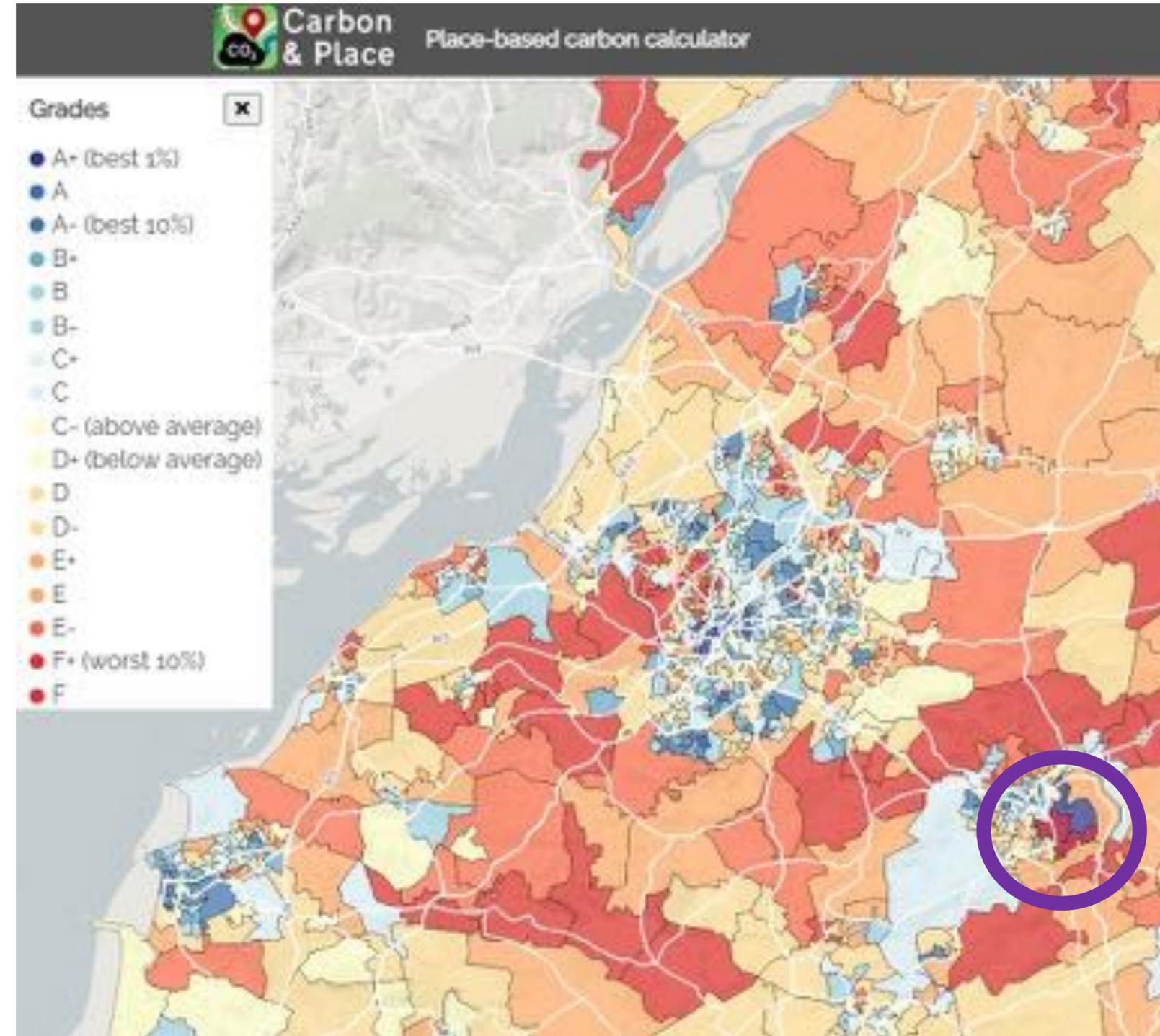
25 years to save the world ?



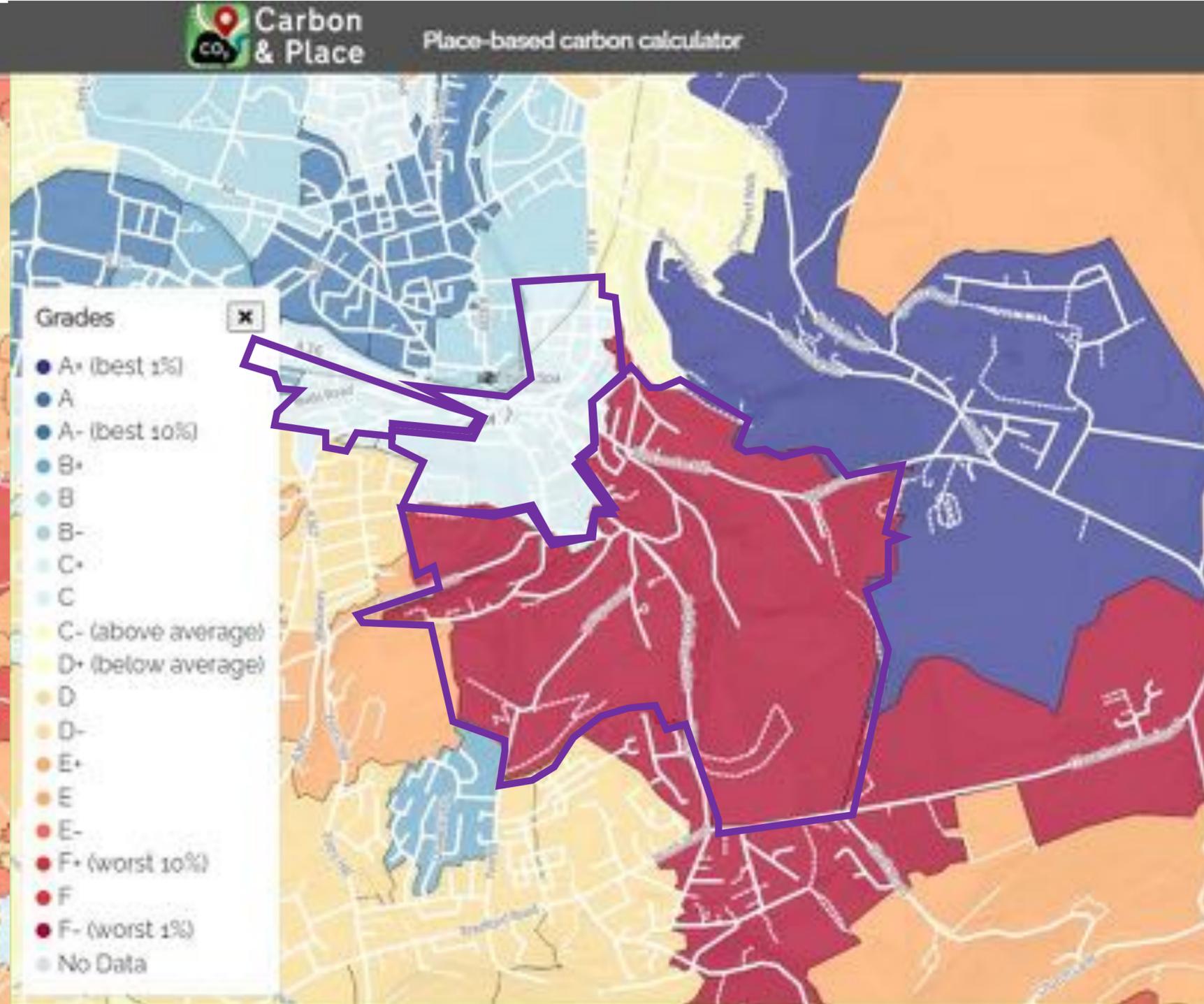
25 years to save the world ?

2025	2030	2035	2040	2045	2050
Widcombe = highest emissions in WECA area					Government target = NET ZERO
TARGETS					
Energy Use +					
Carbon Emissions:					
100%	80%	60%	40%	20%	0%*

25 years to save the world ?



Overall Carbon Emissions across WECA.



Overall Carbon Emissions across Widcombe Area.

25 years to save the world ?



25 years to save the world ?



25 years to save the world ?

How do you eat an elephant ?



25 years to save the world ?

How do you eat an

One bite at a



elephant ?

time !

25 years to save the world ?

Remember...
**IT'S A
MARATHON
NOT A
SPRINT!**



Small progress is
still progress.

25 years to save the world ?

typical current housing

heat sources

heat losses

roofs 30%

walls 30%

**doors
windows
draughts
30%**

floors 10%

gas boiler 80-90% efficiency

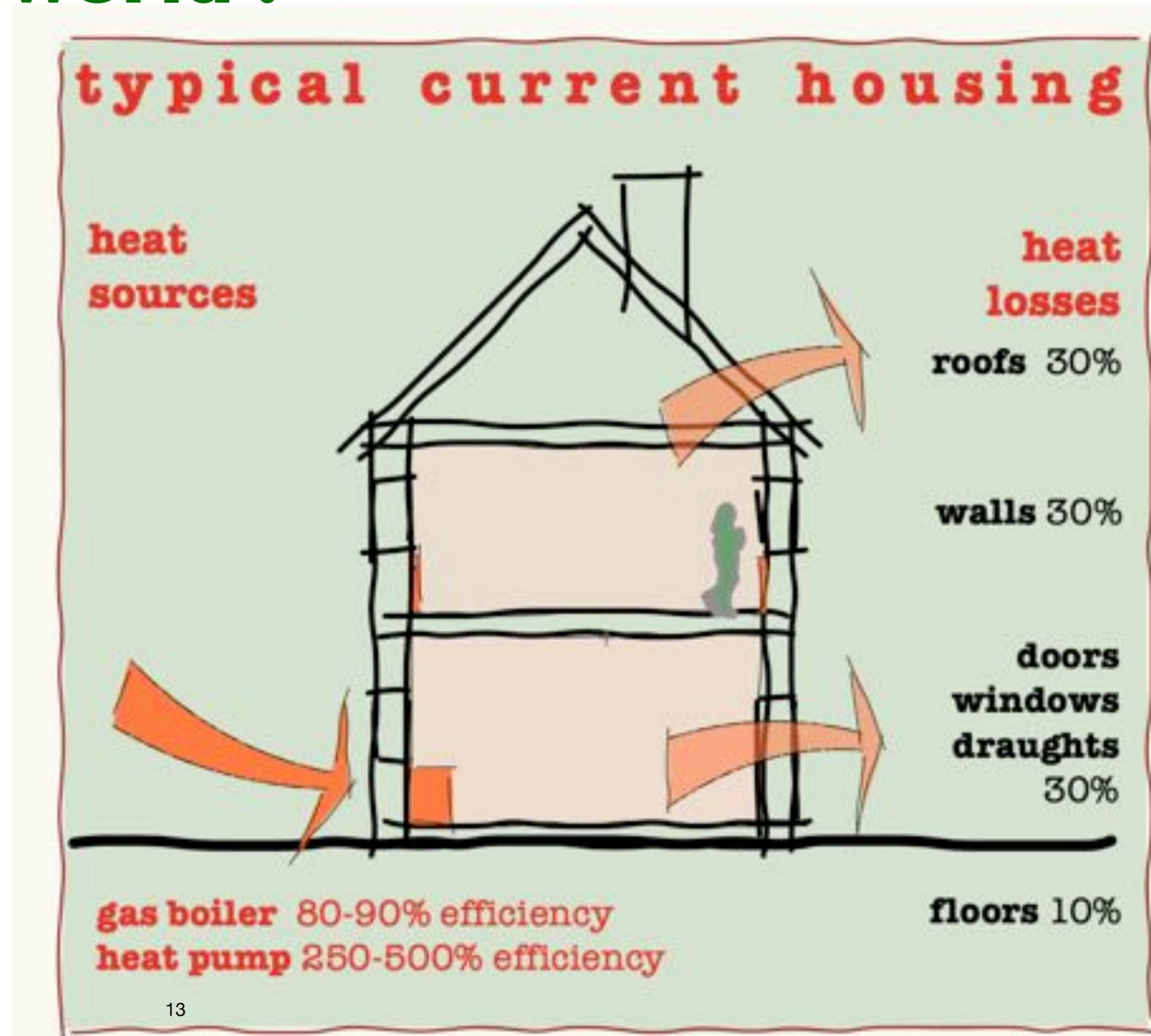
heat pump 250-500% efficiency

25 years to save the world ?

All models are wrong,
but some are useful.

George Box, British statistician (1919 – 2013)

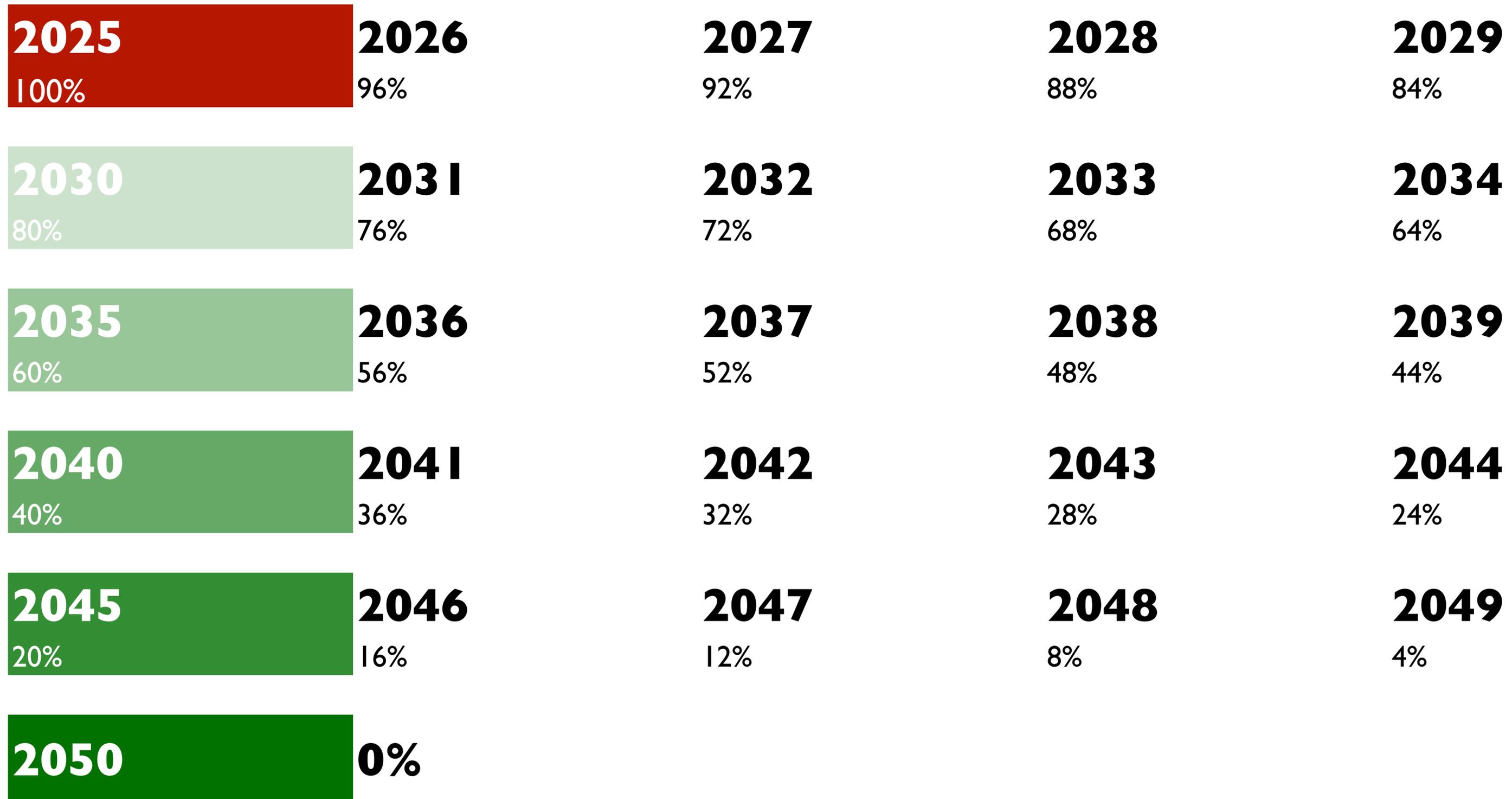
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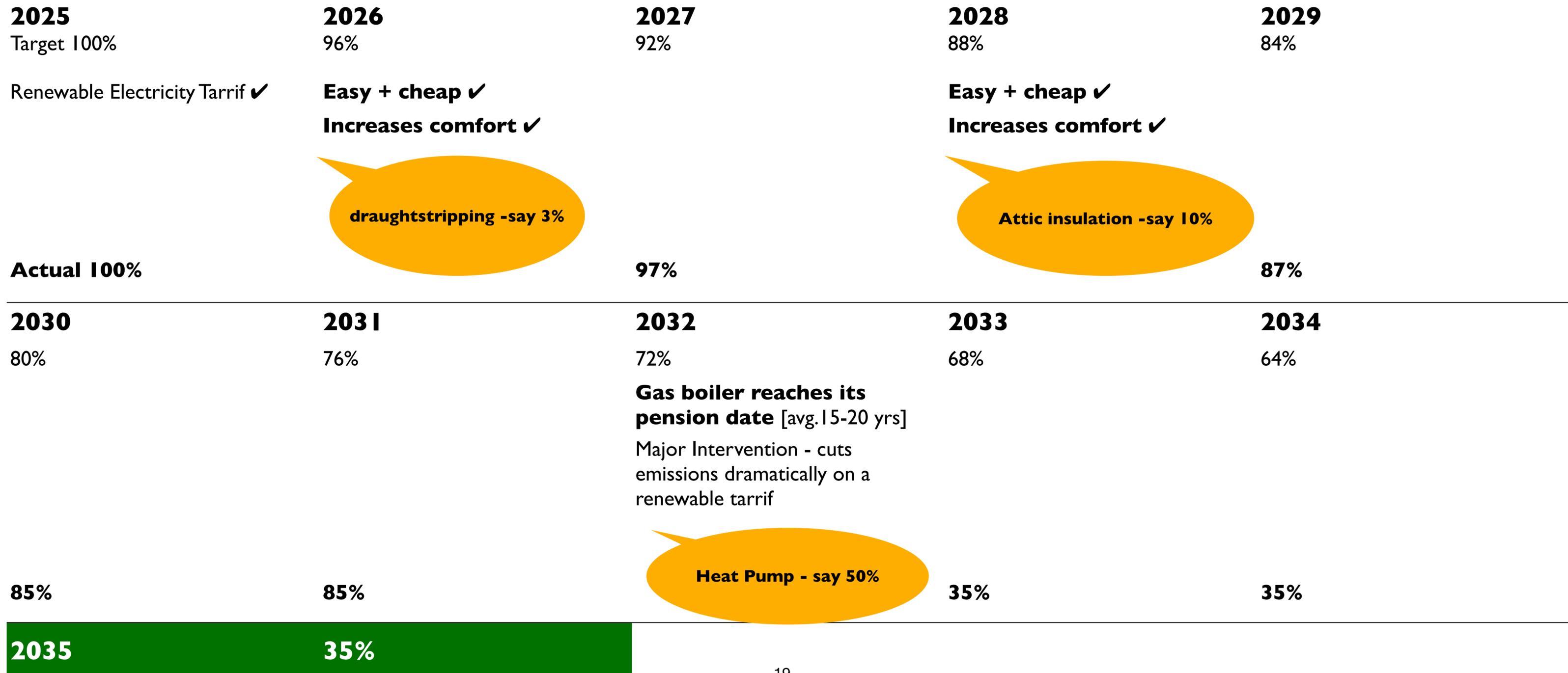
Small progress is
still progress.

25 years to save the world ?

2025 Target 100% Actual 100%	2026 96% draughtstripping -say 3%	2027 92% 97%	2028 88% Attic insulation -say 10%	2029 84% 87%
2030 80% 87%	2031 76% 87%	2032 72% Heat Pump - say 50%	2033 68% 37%	2034 64% 37%
2035 60% Double Glazing -say 12%	2036 56% 25%	2037 52% 25%	2038 48% 25%	2039 44% 25%
2040 40% Floor Insulation -say 10%	2041 36% 15%	2042 32% 15%	2043 28% Kitchen Wall Insulation -say 5%	2044 24% 10%
2045 20% 10%	2046 16% Bedroom Wall Insulation -say 5%	2047 12% 0%	2048 8% 0%	2049 4% 0%
2050	0%			

25 years to save the world ?

10 years to hope...



25 years to save the world ?

2025 Target 100% Actual 100%	2026 96% draughtstripping -say 3%	2027 92% 97%	2028 88% Attic insulation -say 10%	2029 84% 87%
2030 80% 87%	2031 76% 87%	2032 72% Heat Pump - say 50%	2033 68% 37%	2034 64% 37%
2035 60% Double Glazing -say 12%	2036 56% 25%	2037 52% 25%	2038 48% 25%	2039 44% 25%
2040 40% Floor Insulation -say 10%	2041 36% 15%	2042 32% 15%	2043 28% Kitchen Wall Insulation -say 5%	2044 24% 10%
2045 20% 10%	2046 16% Bedroom Wall Insulation -say 5%	2047 12% 0%	2048 8% 0%	2049 4% 0%
2050	0%			

25 years to save the world ?



Retrofit ? Why Bother ?



**Retrofit ?
Why Bother ?**

Because we can !



**Retrofit ?
Why Bother ?**

Because we must !