40% GREENHOUSE GAS CUTS IS NOT ENOUGH

PARIS AGREEMENT

We must reduce to:

1.5-2°C

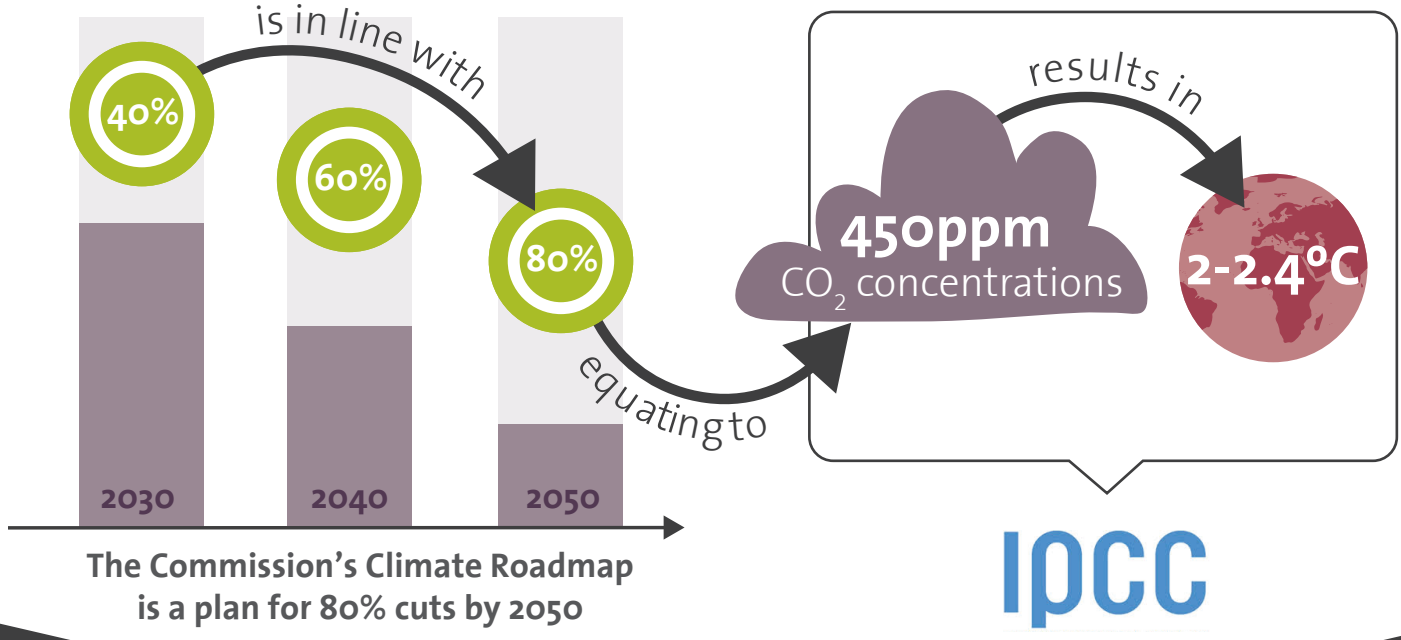
Our current

40%

is enough

EU COMMISSION

So where does 40% come from?



The Commission's Climate Roadmap is a plan for 80% cuts by 2050

40% = 2-2.4°C

https://unfccc.int/resource/docs/2015/cop21/eng/l09r01.pdf
http://ec.europa.eu/clima/policies/strategies/2050/index_en.htm
https://www.ipcc.ch/publications_and_data/ar4/wg3/en/ch13-ens13-3-3-3.html
https://www.ipcc.ch/pdf/assessment-report/ar4/wg3/ar4-wg3-spm.pdf

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References

1) PARIS AGREEMENT RECOMMENDS 1.5-2°C

At the COP21 in Paris (December 2015) 195 countries including the EU agreed to 'hold 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 °C above pre-industrial levels, recognizing that this would significantly reduce the risks and impacts of climate change' See p22 http://bit.ly/1K9T2NV

2) EU COMMISSION SAYS THE 40% BY 2030 EMISSIONS TARGET IS ENOUGH

'The EU has set an ambitious economy-wide domestic target of at least 40% greenhouse gas emission reduction for 2030. The target is based on global projections that are in line with the medium term ambition of the Paris Agreement'. 'The Paris Agreement vindicates the EU's approach' See p2 and p9 in the Commission's Road from Paris communication (March 2016) http://bit.ly/1QrH5t6

3) COMMISSION'S CLIMATE ROADMAP ASSUMES 80% CUTS BY 2050

See website of the Commission's Climate Action department: 'The roadmap [published March 2011] sets out a cost-efficient pathway to reach the 80% target by 2050. To get there, Europe's emissions should be: 40% below 1990 levels by 2030, 60% below by 2040. http://bit.ly/1LtlGrR Full 2050 climate roadmap: http://bit.ly/1SOmQmq

4) 80% EMISSIONS CUTS EQUATES TO 450 PPM CO_2 EQUIVALENT

Actually, 80-95% emissions cuts equate to concentrations of 450 ppm CO2 equivalent. By aiming for only 80% cuts by 2050, the Commission's climate roadmap is at the low end of the range. See 'Implications of regime stringency: linking goals, participation and timing', Fourth Assessment Report of the Intergovernmental Panel on Climate Change (2007): http://bit.ly/1qsqr2u

Scenario category	Region	2020	2050
A-450 ppm CO2-eq	Annex I	–25% to –40%	–80% to –95%
	Non-Annex I	Substantial deviation from baseline in Latin America, Middle East, East Asia and Centrally-Planned Asia	Substantial deviation from baseline in all regions

5) 450 PPM CO2 EQUIVALENT RESULTS IN 2-2.4°C OF GLOBAL WARMING

See table 5 p15 of the 'Summary for Policymakers', Fourth Assessment Report of the Intergovernmental Panel on Climate Change (2007) http://bit.ly/1W090AX

Category	Radiative forcing (W/m2)	CO2 concentration (ppm)	CO2-eq concentration (ppm)	Global mean temperature increase above preindustrial at equilibrium,using "best estimate" climate sensitivity	Peaking year for CO2 emissions	Change in global CO2 emissions in 2050 (% of 2000 emissions)	No. of assessed scenarios
I	2.5-3.0	350-400	445-490	2.0-2.4	2000-2015	-85 to -50	6

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APRIL 2016

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Friends of the Earth Europe gratefully acknowledges financial assistance from the European Climate Foundation. The contents of this briefing are the sole responsibility of Friends of the Earth Europe and cannot be regarded as reflecting the position of the funder. The funder cannot be held responsible for any use which may be made of the information this briefing contains.