

# The 2050 decarbonisation challenge: **What policy mix for the EU's climate targets?**

- a research project presentation -

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## Ecologic Institute: Who we are

- Research for applied environmental research, policy analysis and consultancy
- Founded in 1995
- Offices in Berlin, Brussels, Washington D.C., San Mateo
- 140 staff in total
- Private, not-for-profit, independent, non-partisan
- Among top 10 "Environmental Think Tanks" in the University of Pennsylvania's Global Index in both 2010 and 2011
- Long standing experience in bridging the gap between science and environmental policy



## The EU's 2050 target: 80-95% reductions = decarbonisation

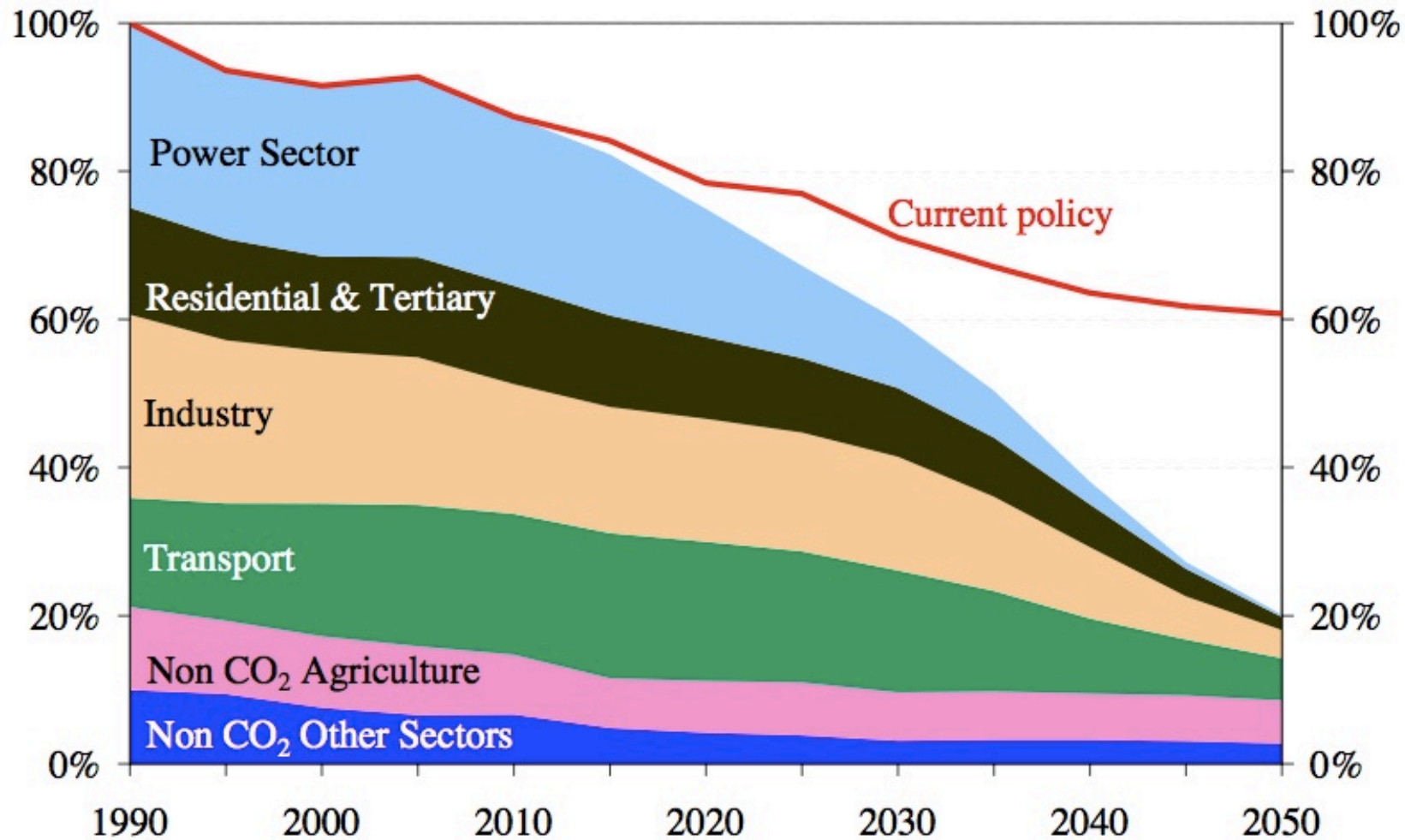
**BRUSSELS EUROPEAN COUNCIL  
29/30 OCTOBER 2009**

**PRESIDENCY CONCLUSIONS**



The European Council calls upon all Parties to embrace the 2°C objective and to agree to global emission reductions of at least 50%, and aggregate developed country emission reductions of at least 80-95%, as part of such global emission reductions, by 2050 compared to 1990 levels; such objectives should provide both the aspiration and the yardstick to establish mid-term goals, subject to regular scientific review. It supports an EU objective, in the context of necessary reductions according to the IPCC by developed countries as a group, to reduce emissions by 80-95% by 2050 compared to 1990 levels.

## Current policy mix is not equipped for reaching the 2050 targets

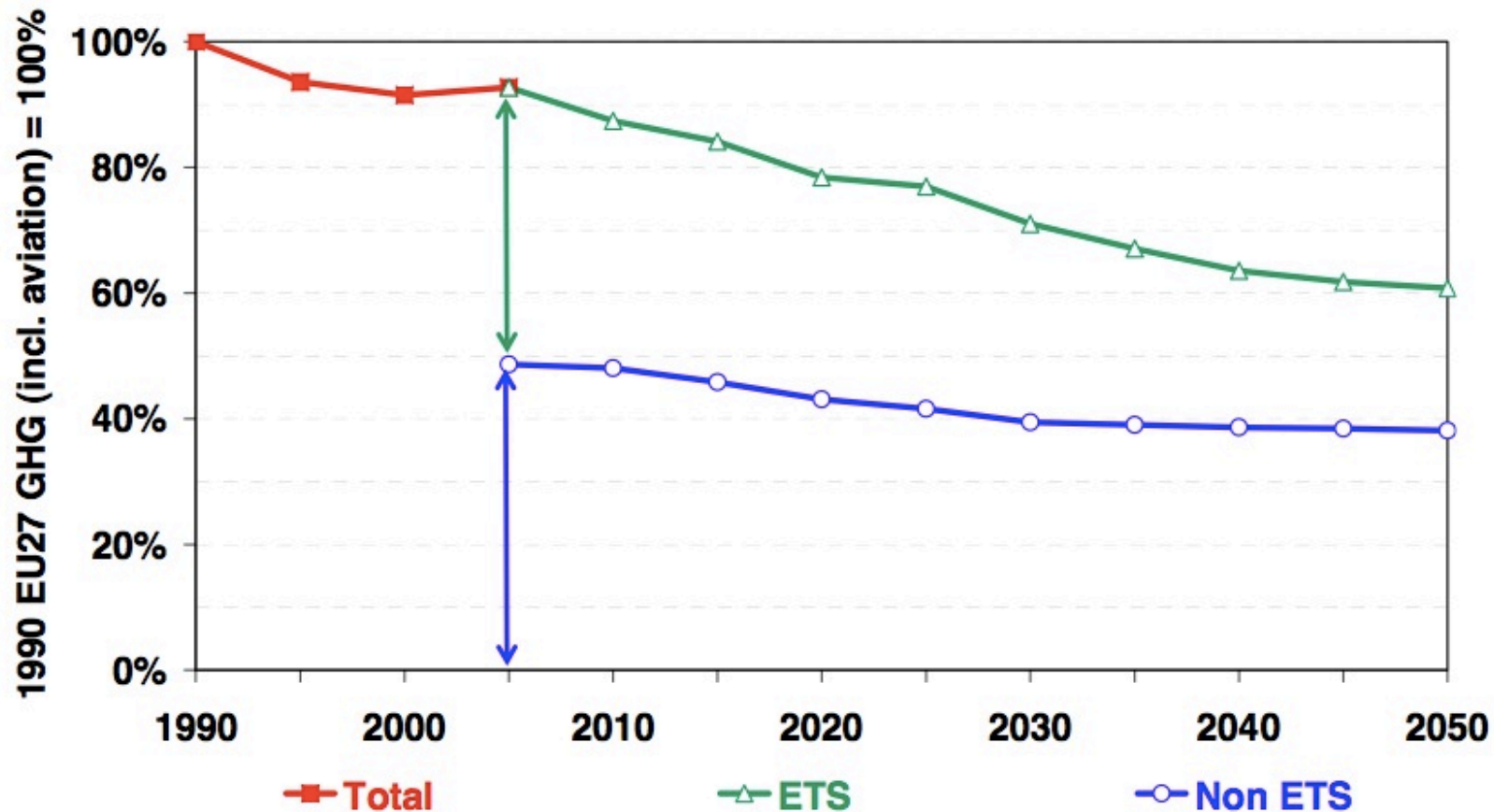


Source: "A Roadmap for moving to a competitive low carbon economy in 2050" COM(2011)112



## Current policy mix is not equipped for reaching the 2050 targets

GHG emissions in the EU in reference case



Source: Roadmap Impact Assessment SEC(2011) 288

## A roadmap for 2050 – needs a suitable policy mix

- EU policy mix contains a great variety of different instruments
- Toolbox contains many measures dedicated to specific objectives, such as:
  - Renewable energy deployment: RES directive (already reviewed once)
  - Energy efficiency/savings: Energy Performance of Buildings, Ecodesign, Energy Efficiency Dir.
  - Greenhouse gas emissions
    - Power sector, Manufacturing, Aviation: Emissions Trading Directive, CCS Directive
    - Road transport: CO2 standards for cars, light-duty vehicles, fuel quality directive
    - Industry: HFC regulation
    - Agriculture: Landfill directive
- Current instruments are not sufficient to reach the 2030 – 2040 – 2050 milestones
- Need for additional independent research
- European Commission issued a call for proposals in 2011 under FP7 research program

## Tackling the 2050 policy mix – the CECILIA2050 project

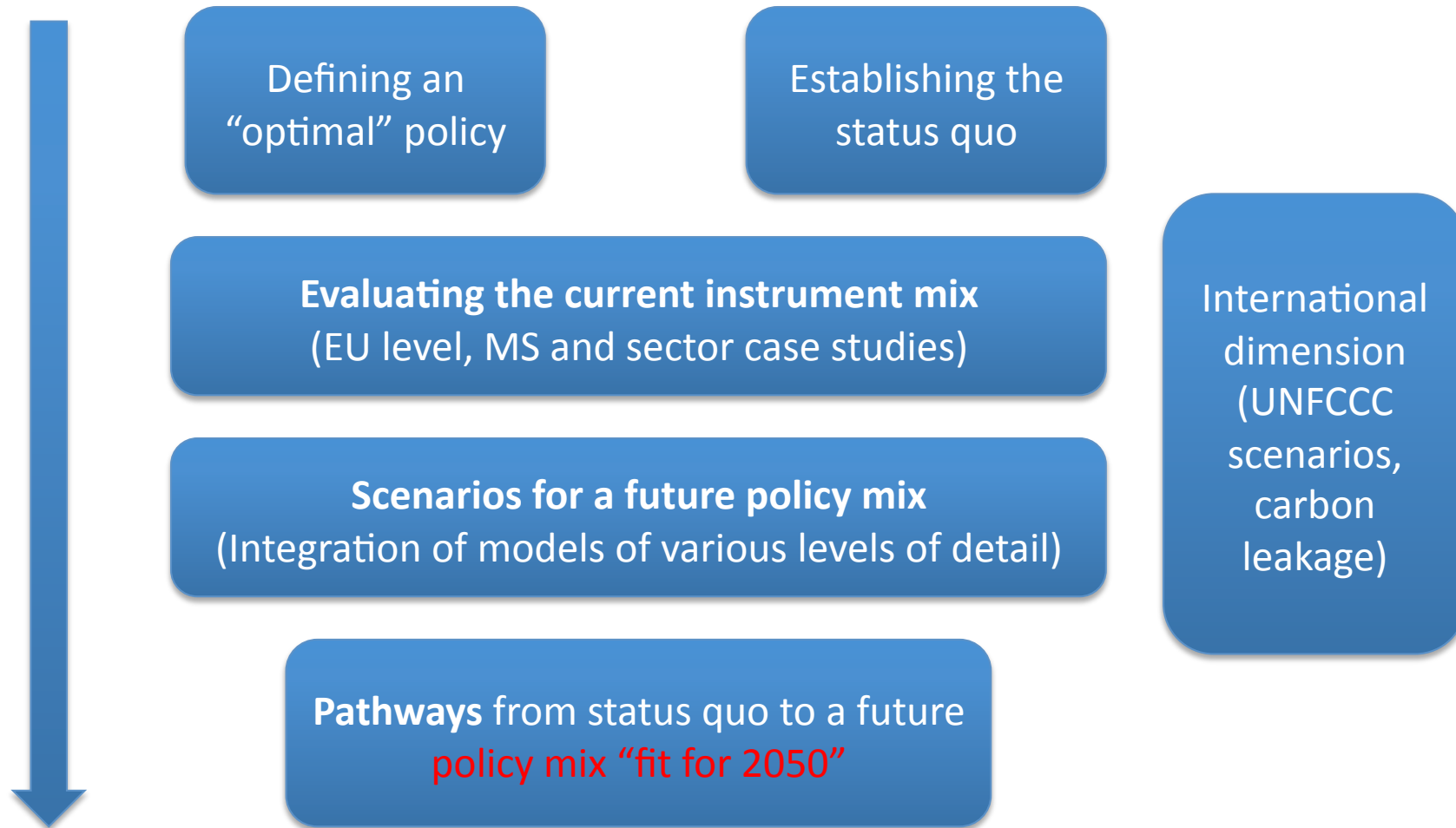
Choosing  
Efficient  
Combinations of Policy  
Instruments for  
Low-carbon development and  
Innovation to  
Achieve Europe's  
2050 climate targets”.



## Who we are: 10 partners from 8 countries

- **NL:** Institute of Environmental Sciences (CML) at Leiden University
- **NL:** Institute for Environmental Studies (IVM) at the Free University of Amsterdam
- **CZ:** Charles University Prague (CUNI)
- **PL:** University of Warsaw
- **UK:** University College London (UCL)
- **F:** Centre International de Recherche sur l'Environnement et le Developpement (CIRED)
- **ES:** Basque Centre for Climate Change (BC3)
- **IT:** University of Ferrara (UNIFE)
- **DE:** Institute of Economic Structures Research (GWS) in Osnabrück/Germany
- **DE:** Ecologic Institute in Berlin as project leader





## The political timeline behind the project horizon

	2012	2013	2014	2015	
UN		ADP negotiating process			Conclusion ?
	DOHA	KP CP2 starts	IPCC AR5 WG1 report	IPCC AR5 WG2 report IPCC AR5 WG3 report	GRULAC AR5 synthesis report FRANCE?
EU				New European Parliament	New European Commission
		Consultation and discussion on REVIEW of EU Climate Policy		New Climate Package under negotiation?	
CECILIA 2050	KICK-OFF	CECILIA 2050 research process			Final reports

Thank you for your attention.



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[www.cecilia2050.eu](http://www.cecilia2050.eu)