

Greenhouse gas emissions in Europe: a retrospective trend analysis for the period 1990–2008



Contents

List of figures and tables	5
Acknowledgements	8
Foreword: cross-sector linkages.....	9
Executive summary	10
1 Introduction	15
2 Methodology	17
2.1 Sectoral classification	17
2.2 Overall method.....	18
2.3 General description	18
2.4 Data source	21
2.5 Limitations and uncertainties.....	21
3 Total GHG emissions, 1990–2008	24
3.1 Emission levels in 2008	24
3.2 GHG emission trends 1990–2008	26
3.3 GHG emissions per capita, GHG intensity relative to GDP	30
4 Transport.....	34
4.1 Emission trend	34
4.2 Effects of drivers on CO ₂ emissions from road transport	36
4.3 Main links between EU policies and observed GHG emission trends from road transport between 1990 and 2008.....	42
4.4 Sectoral synthesis: road transport.....	43
4.5 Indicative list of relevant legislative texts.....	48
5 Agriculture	50
5.1 Emission trend	50
5.2 Effects of drivers on GHG emissions from agriculture	51
5.3 Main links between EU policies and observed GHG trends in the agriculture sector between 1990 and 2008.....	56
5.4 Sectoral synthesis: agriculture.....	58
5.5 Indicative list of relevant legislative texts.....	64

6 Waste	65
6.1 Emission trend	65
6.2 Effects of drivers on CH ₄ emissions from municipal solid waste management.....	66
6.3 Main EU legislation potentially linked to GHG emissions from the waste sector between 1990 and 2008.....	70
6.4 Sectoral synthesis.....	71
6.5 Indicative list of relevant legislative texts	75
7 Energy (excluding transport).....	76
7.1 Emission trends from energy supply and use (excluding the transport sector)	77
7.2 Effects of drivers on GHG emissions from energy supply and use (excluding transport).....	81
7.3 Main links between EU legislation and observed GHG emission trends from energy supply and use between 1990 and 2008	91
7.4 Sectoral synthesis.....	93
7.5 Indicative list of relevant legislative texts	103
8 Conclusion	105
8.1 Top down decomposition analysis of GHG emission trends in EU-27	105
8.2 Bottom-up synthesis of sectoral analyses	110
9 Acronyms and abbreviations.....	116
10 References.....	118