

EU Trade in CO₂ Emissions

Iñaki Arto, José M. Rueda-Cantuche, M. Victoria Román, Ignacio Cazcarro, Antonio F. Amores and Erik Dietzenbacher

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JRC120523

EUR 30213 EN

 PDF
 ISBN 978-92-76-18825-4
 ISSN 1831-9424
 doi:10.2760/63460

 Print
 ISBN 978-92-76-18824-7
 ISSN 1018-5593
 doi:10.2760/933119

Luxembourg: Publications Office of the European Union, 2020

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How to cite this report: Arto, I., Rueda-Cantuche, J.M., Román, M. V., Cazcarro, I., Amores, A.F., and Dietzenbacher, E., *EU Trade in CO*₂ *Emissions*, EUR 30213 EN, Publications Office of the European Union, Luxembourg, 2020, ISBN 978-92-76-18825-4, doi:10.2760/63460, JRC120523.

EU Trade in CO₂ Emissions

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2020 Edition

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INTRODUCTION

The European Commission identified trade policy as a core component of the European Union's 2020 Strategy. The fast changing global economy, characterised by the dynamic creation of business opportunities and increasingly complex production chains, means that it is now even more important to fully understand how global value chains affect CO_2 emissions. Gathering comprehensive, reliable and comparable information on this is crucial to support evidence-based policymaking.

Guided by that objective, the European Commission's Joint Research Centre (JRC) has produced this publication. It aims to be a valuable tool for trade policymakers.

The report features a series of indicators to illustrate in detail the EU CO_2 emissions dependence on the final demand of each EU Member State, and the CO_2 emissions in each Member State depending on the EU final demand. This is done using the World Input-Output Database (WIOD), 2016 release, as the main data source. This information has been complemented with data on CO_2 emissions from other sources such as the EU Science Hub of the European Commission (Corsatea et al. 2019). Besides, indicators have been also included to account for the inter-dependence between the EU and other world economies.

Indicators cover the period 2000-2014. The geographical breakdown of the data includes the 28 EU Member States, Australia, Brazil, Canada, China, India, Indonesia, Japan, Mexico, Norway, Russia, South Korea, Switzerland, Turkey, Taiwan, the United States of America, and an aggregate "Rest of the World" region.

The information presented in this pocketbook is complemented with a software tool for analyses of global value chains, trade, income and employment. This tool enables a more detailed analysis of the different indicators related to global value chains and includes additional data management and visualization options.

ABBREVIATIONS AND GLOSSARY

Country abbreviations

European Union Member States

EU	The 28 Member States of the European Union
AT	Austria
BE	Belgium
BG	Bulgaria
CY	Cyprus
CZ	Czech Republic
DE	Germany
DK	Denmark
EE	Estonia
EL	Greece
ES	Spain
FI	Finland
FR	France
HR	Croatia
HU	Hungary
IE	Ireland
IT	Italy
LT	Lithuania
LU	Luxembourg
LV	Latvia
MT	Malta
NL	Netherlands
PL	Poland
PT	Portugal
RO	Romania
SE	Sweden
SI	Slovenia
SK	Slovakia
UK	United Kingdom

Trading partners

Non-EU	Non EU countries	
AU	Australia	-
BR	Brazil	
CA	Canada	
CH	Switzerland	
CN	China	
ID	Indonesia	9
IN	India	
JP	Japan	

KR	South Korea
MX	Mexico
NO	Norway
RU	Russia
TR	Turkey
TW	Taiwan
US	United States of America

RW Rest of the World

Sector abbreviations

- P primary
- M manufacturing
- S services

Industry abbreviations

- P primary
- M1 food, beverages, tobacco
- M2 textiles
- M3 wood, paper, printing
- M4 energy
- M5 chemicals
- M6 other non-metallic and basic metals
- M7 machinery and transport equipment
- S1 transport, trade and business services
- S2 other services.

Industry classification

NACE Rev. 2	Sector	Industry
Crop and animal production	Р	Р
Forestry and logging	Р	Р
Fishing and aquaculture	Р	Р
Mining and quarrying	Р	Р
Manufacture of food, beverages and tobacco	М	M1
Manufacture of textiles, wearing apparel	М	M2
Manufacture of wood and of products	М	M3
Manufacture of paper and paper products	М	M3
Printing and reproduction of recorded media	М	M3
Manufacture of coke and refined petroleum	М	M4
Manufacture of chemicals	М	M5
Manufacture of basic pharmaceuticals	М	M5
Manufacture of rubber and plastic products	М	M6
Manufacture of other non-metallic mineral	М	M6
Manufacture of basic metals	М	M6

NACE Rev. 2	Sector	Industry
Manufacture of fabricated metals	М	M6
Manufacture of computer, electronic and optical		M7
Manufacture of electrical equipment		M7
Manufacture of machinery and equipment n.e.c.		M7
Manufacture of motor vehicles		M7
Manufacture of other transport equipment		M7
Manufacture of furniture; other manufacturing		M7
Repair and installation of machinery		M7
Electricity, gas, steam and air conditioning supply	M	M4
Water collection, treatment and supply	M	M4
Sewerage; waste collection, treatment and disposal	M	M4
Construction	S	52
Wholesale and retail trade and repair of vehicles	S	S1
Wholesale trade, except motor vehicles	S	51
Retail trade, except of motor vehicles	S	
Land transport and transport via pipelines	S	
Water transport and transport via piperines	S	
Air transport	S	
Warehousing and support activities for transportation	S	
Postal and courier activities	S	
Accommodation and food service activities	S	52
Publishing activities	S	
Motion picture, video and television programmes	S	
Telecommunications	S	S1
Computer programming; information services	S	S1 S1
Financial service activities, except insurances	S	
Insurance, reinsurance and pension funding	S	S1
Activities auxiliary to financial services	S	
Real estate activities	S	52
Legal and accounting; management consultancy	S	
Architectural and engineering activities	S	
Scientific research and development	S	
Advertising and market research	S	
Other professional, scientific and technical activities	S	
Administrative and support service activities	S	
Public administration and defence; social security	S	51
Education	S	52
Human health and social work activities	S	52
Other service activities	S	52
Activities of households as employers	S	52
Activities of extraterritorial organizations	S	52
Activities of extratemental organizations	ر ا	2

Unit of measurement

m	million (10 ⁶)
bn	billion (10 ⁹)
EUR	euro
tCO ₂	metric tonnes of carbon dioxide

Glossary

Domestic footprint: CO_2 emissions in a given country that are embodied in its own final demand.

Employment: number of people engaged in production activities, including employees and self-employed.

Foreign footprint: CO_2 emissions in other countries that are embodied in the final demand of a given country.

Industry: economic branch of activity gathering firms and/or production plants producing the same good or service as their main activity.

Sector: group of industries.

Value added: income calculated as the sum of labour compensation and return on capital. It can refer to a given industry or to an economy as a whole and when computed at national level is sometimes used as a proxy of Gross Domestic Product (GDP).

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Corsatea T.D., Lindner S., Arto, I., Román, M.V., Rueda-Cantuche J.M., Velázquez Afonso A., Amores A.F., Neuwahl F., *World Input-Output Database Environmental Accounts. Update 2000-2016*, EUR 29727 EN, Publications Office of the European Union, Luxembourg, 2019, doi:10.2760/024036

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HOW TO READ THIS REPORT

This report is organised as follows:

Introduction Abbreviations and glossary How to read this report A. Indicators by EU Member State B. Indicators by trading partner C. Indicators by industry or sector D. Indicator by final destination E. Country factsheets Data sources and methodology

Sections A to D show all the indicators related to the (EU and Non-EU) CO_2 emissions generated by (EU and Non-EU) final demand. We suggest using Figures 1 and 2 for an overview of all the interlinkages across tables.

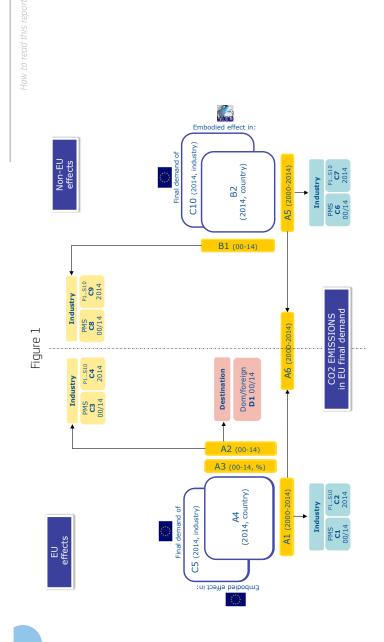
As shown in Figure 1, all tables pivot around Tables A.4 (EU effects) and B.2 (Non-EU effects). They both show where the effects take place (rows) and which country is driving those effects (columns). As a result, each element of the Table A.4 reports the CO_2 emissions in a given Member State (row *i*) generated due to the final demand of a Member State (column *j*). All other tables split these results by trading partner, industries, sectors and final destination. Besides, tables C.5 and C.10 show the same results but focusing on the industry breakdown and removing the country dimension.

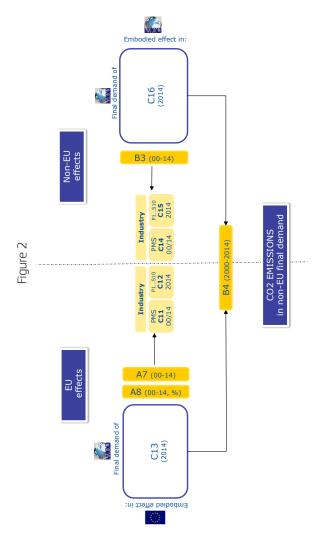
For instance, in order to know how much CO₂ emissions in Spain is generated by EU final demand, one should look at Table A.2. Contrarily, if one is interested in the CO₂ emissions generated by the Spanish final demand, then one should look at the Tables A.1 and A.5. The former informs about the CO₂ emissions generated in the EU due to the Spanish final demand, and the latter about the CO₂ emissions generated outside the EU due to the Spanish final demand. This information is summed in Table A.6, which gives the total CO₂ emissions embodied in the final demand of each Member State.

In addition, Figure 2 shows that Table A.7 depicts how much $\rm CO_2$ emissions in Spain is generated by non-EU final demand.

Section E contains factsheets for each Member State, drawing on the information from sections A to D.

Finally, the last section describes the data sources and the methodology used for the calculations.





:U Trade in CO₂ Emission

A. By EU Member State

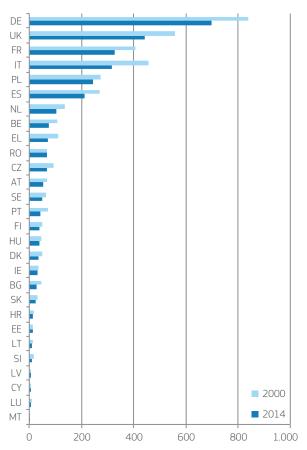
A.1. EU CO2 emissions embodied in the final demand of each Member State (2000, 2007, 2014; m tCO2)

	2000	2007	2014	2014 - 2000	2014 / 2000
AT	69	69	54	-15	-22.0%
BE	107	97	76	-30	-28.5%
BG	45	42	29	-16	-35.0%
СҮ	6	9	6	0	1.3%
CZ	93	94	67	-26	-27.8%
DE	837	715	698	-140	-16.7%
DK	48	48	35	-13	-27.9%
EE	12	14	13	0	1.6%
EL	109	115	72	-38	-34.4%
ES	270	337	213	-58	-21.3%
FI	49	57	38	-11	-21.6%
FR	408	401	327	-80	-19.7%
HR	16	21	15	-1	-8.7%
HU	48	52	38	-10	-21.3%
IE	36	45	33	-3	-8.8%
IT	458	462	315	-144	-31.3%
LT	12	15	11	-2	-13.2%
LU	9	11	5	-3	-38.0%
LV	7	11	8	0	1.3%
MT	3	3	2	-1	-25.9%
NL	137	135	102	-34	-25.2%
PL	272	278	243	-29	-10.6%
PT	72	62	43	-29	-40.3%
RO	69	88	67	-2	-2.8%
SE	64	61	48	-15	-23.8%
SI	17	15	10	-7	-39.1%
SK	32	28	24	-8	-26.2%
UK	556	562	442	-114	-20.4%
EU	3,860	3,848	3,032	-827	-21.4%

CO₂ emissions including those emitted directly by households

In 2014, 698m $\mathrm{tCO_2}$ emitted in the whole EU were embodied in German final demand.

A.1. EU CO2 emissions embodied in the final demand of each Member State (2000, 2014; m tCO2)



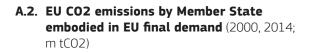
Between 2000 and 2014, CO₂ emissions embodied in EU final demand decreased by 827m tCO₂ (-21%), to reach a total of 3,032m tCO₂. The reduction in total EU CO2 emissions embodied in EU final demand was led by the final demand of Italy (-144m tCO₂), Germany (-140m tCO₂), the UK (-114m tCO₂), France (-80m tCO₂) and Spain (-58m tCO₂). In 2014, 23% of the EU CO₂ emissions embodied in EU final demand was driven by the final demand of Germany (698m tCO₂), 15% was due to the final demand of the UK (442m tCO₂), 11% by French final demand (327m tCO₂) and 10% by Italian final demand (315m tCO₂).

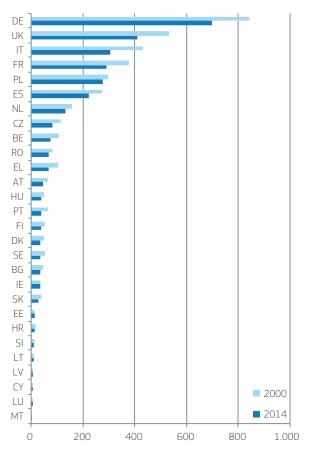
A.2. EU CO2 emissions by Member State embodied in EU final demand (2000, 2007, 2014; m tCO2)

	2000	2007	2014	2014 - 2000	2014 / 2000
AT	63	63	45	-17	-28.0%
BE	109	96	74	-35	-32.2%
BG	46	49	36	-10	-22.2%
СҮ	6	8	6	-1	-9.3%
CZ	115	117	81	-34	-29.9%
DE	843	758	700	-144	-17.0%
DK	50	51	36	-14	-28.8%
EE	13	17	15	2	12.5%
EL	105	110	68	-37	-35.3%
ES	274	331	222	-52	-18.9%
FI	54	61	38	-16	-28.9%
FR	378	358	291	-87	-23.0%
HR	16	20	14	-1	-8.4%
HU	51	54	40	-11	-21.2%
IE	37	40	35	-2	-5.6%
IT	433	439	304	-129	-29.8%
LT	11	14	11	0	-1.5%
LU	8	11	5	-2	-30.7%
LV	7	8	7	0	-3.7%
MT	3	3	3	0	2.7%
NL	157	152	132	-25	-15.7%
PL	299	311	278	-22	-7.2%
PT	63	58	40	-23	-36.5%
RO	82	90	69	-13	-15.7%
SE	54	46	36	-19	-34.3%
SI	14	15	11	-3	-19.6%
SK	37	35	27	-10	-27.3%
UK	531	532	409	-122	-23.0%
EU	3,860	3,848	3,032	-827	-21.4%

CO₂ emissions including those emitted directly by households

In 2014, 291m tCO $_{\rm 2}$ emitted in France were embodied in the final demand of the whole EU.





Between 2000 and 2014, EU CO₂ emissions embodied in EU final demand decreased by 827m tCO₂ (-21%), to reach a total of 3,032m tCO₂. Most of the reduction was in Germany (-144m tCO₂), Italy (-129m tCO₂), the UK (-122m tCO₂), France (-87m tCO₂) and Spain (-52m tCO₂). In 2014, 700m tCO₂ emitted in Germany were embodied in the final demand of the whole EU (23%) of total EU CO₂ emissions embodied in EU final demand), 409m tCO₂ emitted in the UK (13%), 304m tCO₂ emitted in Italy (10%), 291m tCO₂ emitted in France (10%) and 278m tCO₂ emitted in Poland (9%).

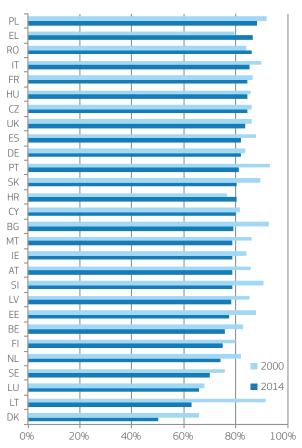
A.3. EU CO2 emissions by Member State embodied in EU final demand as a percentage of total CO2 emissions (2000, 2007, 2014; %)

	2000	2007	2014
AT	85.6%	80.0%	78.5%
BE	82.7%	80.7%	75.7%
BG	92.5%	82.8%	79.1%
СҮ	81.7%	90.7%	79.9%
CZ	86.0%	86.6%	84.2%
DE	83.5%	78.9%	81.8%
DK	65.6%	50.3%	50.0%
EE	87.9%	84.0%	77.6%
EL	79.6%	77.1%	86.4%
ES	87.8%	88.3%	82.1%
FI	79.9%	76.8%	74.9%
FR	86.5%	86.5%	84.3 %
HR	76.5%	78.6%	80.1%
HU	85.7%	88.8%	84.2%
IE	84.0%	84.9%	78.6%
IT	89.6%	88.0%	85.4%
LT	91.6%	84.1%	62.9%
LU	68.0%	76.6%	66.0%
LV	85.1%	81.5%	78.2%
MT	86.0%	80.0%	78.6%
NL	82.0%	79.6%	74.0%
PL	91.8%	90.6%	88.0%
PT	93.2%	89.6%	81.2%
RO	83.9%	85.2%	86.0%
SE	75.8%	74.1%	69.8%
SI	90.8%	84.7%	78.5%
SK	89.5%	84.4%	80.4%
UK	86.2%	86.5%	83.7%
EU	85.5%	83.4%	81.7%

CO2 emissions including those emitted directly by households

In 2014, 84.3% of the total ${\rm CO_2}$ emissions of France were embodied in the final demand of the whole EU.

A.3. EU CO2 emissions by Member State embodied in EU final demand as a percentage of total CO2 emissions (2000, 2014; %)



Between 2000 and 2014, the share of total CO_2 emissions across the EU embodied in the final demand of the EU decreased from 85.5% in 2000 to 81.7% in 2014. In 2014, in all Member States except Denmark, Finland, Lithuania, Luxembourg, the Netherlands and Sweden more than 75% of their CO, emissions were embodied in the final demand of the EU.

A. By EU Member State

A.4. EU CO2 emissions by Member State embodied in the final demand of each Member State (2014; m tCO2)

| SK
SK | 0.26 0.98 | 3.14 | 0.68 |
 |
 | | |
 | | |
 | | |
 | |
|------------|-----------|---|---
--

--
---|--|--|--
--	---
--	--
;	97.7
 | 1.78
 | 15.08 | 2.11 | 0.27
 | 0.46 | 4.80 | 1.30
 | 6.71 | 0.16 | 0.82
 | 4.26 |
| 51 | ~1 | 0.11 | 0.08 | 0.01
 | 1.95
 | 1.47 | 0.05 | 0.01
 | 0.02 | 0.14 | 0.04
 | 0.23 | 0.03 | 0.40
 | 0.02 |
| | 0.24 | 0.07 | 0.08 | 0.00
 | 0.17
 | 0.66 | 0.03 | 0.01
 | 0.02 | 0.14 | 0.02
 | 0.12 | 0.25 | 0.16
 | 0.01 |
| SE
ê 10 | 0.39 | 0.92 | 0.19 | 0.03
 | 0.63
 | 4.48 | 2.16 | 0.70
 | 0.07 | 0.69 | 1.98
 | 1.08 | 0.06 | 0.29
 | 0.21 |
| R0 | 0.37 | 0.23 | 0.95 | 0.02
 | 0.51
 | 2.17 | 0.13 | 0.02
 | 0.21 | 0.41 | 0.07
 | 0.57 | 0.06 | 1.02
 | 0.03 |
| PT
200 | 600 | 0.27 | 0.08 | 00:0
 | 0.15
 | 1.43 | 0.11 | 0.02
 | 0.04 | 4.13 | 0.06
 | 0.79 | 0.02 | 0.06
 | 0.10 |
| Ч, | 0.67 | 0.76 | 0.36 | 0.03
 | 2.31
 | 8.04 | 0.44 | 0.11
 | 0.12 | 1.10 | 0.41
 | 1.39 | 0.06 | 0.70
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| ۳
۲ | 0.40 | 2.38 | 0.30 | 0.02
 | 0.74
 | 7.38 | 0.48 | 0.13
 | 0.11 | 1.26 | 0.52
 | 1.95 | 0.05 | 0.33
 | 0.38 |
| TM 100 | 000 | 0.01 | 0.02 | 0.02
 | 0.01
 | 0.07 | 0.01 | 0:00
 | 0.01 | 0.04 | 0:00
 | 0.03 | 0.01 | 00:0
 | 10:0 |
| [] | 0.03 | 0.04 | 0.03 | 0:00
 | 0.07
 | 0.29 | 0.06 | 0.37
 | 0.01 | 0:06 | 0.15
 | 0.06 | 0:00 | 0.04
 | 0:02 |
| LU
0.21 | 0.04 | 0.46 | 0.02 | 0:00
 | 0.06
 | 0.85 | 0.02 | 0.01
 | 0.01 | 0.09 | 0.02
 | 0.38 | 0.01 | 0.03
 | 0.03 |
| | | 0.09 | 0.05 | 0.01
 | 0.15
 | 0.53 | 0.06 | 0.22
 | 0.01 | 0.12 | 0.10
 | 0.11 | 0.01 | 0.06
 | 0.01 |
| 1 | 1.86 | 2.03 | 1.27 | 0.04
 | 2.07
 | 12.37 | 0.59 | 0.14
 | 0.70 | 4.77 | 0.58
 | 5.74 | 0.47 | 1.13
 | 0.72 |
| IE
0.01 | 0:07 | 0.23 | 0.04 | 000
 | 0.12
 | 0.98 | 0:0 | 0.02
 | 0.02 | 0.39 | 0.08
 | 0.42 | 0.01 | 0.05
 | 25.96 |
| Н.
Э | 0.56 | 0.26 | 0.24 | 0.01
 | 1.19
 | 2.20 | 0.32 | 0.02
 | 0.03 | 0.22 | 0.06
 | 0.36 | 0.16 | 28.05
 | 0.05 |
| _ | | 0.06 | 0.07 | 0:00
 | 0.19
 | 090 | 0.03 | 0.00
 | 0.03 | 0.10 | 0.02
 | 0.10 | 11.79 | 0:20
 | 0.01 |
| FR | 1.36 | 5.32 | 0.84 | 0.03
 | 2.04
 | 18.71 | 0.81 | 0.19
 | 0.36 | 9:56 | 0.82
 | 251.04 | 0.16 | 06:0
 | 0.94 |
| H | 0.13 | 0.32 | 0.09 | 00:0
 | 0.25
 | 2.07 | 0.64 | 1.09
 | 0.03 | 0.28 | 28.56
 | 0.42 | 0.01 | 60:0
 | 0:07 |
| با
۲۲ | 0.50 | 1.05 | 0.33 | 0.01
 | 0.82
 | 6.68 | 0.40 | 0.10
 | 0.22 | 183.46 | 0.39
 | 4.43 | 0.06 | 0.36
 | 0.28 |
| EL | 0.12 | 0.25 | 0.86 | 0.08
 | 0.14
 | 1.43 | 0.11 | 0.02
 | 64.09 | 0.70 | 0.07
 | 0.55 | 0.11 | 0.10
 | 0.04 |
| Eff. | 0.02 | 0.03 | 0.02 | 0.01
 | 0.05
 | 0.30 | 0.05 | 10.75
 | 0.01 | 0.04 | 0.25
 | 0.05 | 000 | 0.02
 | 0.01 |
| DX
T | 0.17 | 0.31 | 0.12 | 0.03
 | 0.34
 | 2.90 | 23.87 | 0.13
 | 0.05 | 0.38 | 0.32
 | 0.54 | 0.04 | 0.14
 | 0.10 |
| DE | 5.02 | 6.06 | 1.72 | 0.06
 | 6.86
 | 589.99 | 2.39 | 0.48
 | 0.58 | 6.17 | 1.86
 | 9.42 | 0.36 | 2.99
 | 0.75 |
| []
[] | 0.49 | 0.37 | 0.29 | 0.01
 | 54.42
 | 3.69 | 0.10 | 0.03
 | 0.04 | 0.38 | 0.09
 | 0.52 | 0.04 | 0.45
 | 0.05 |
| رب
م | 0.02 | 0.04 | 0.04 | 5.06
 | 0.02
 | 0.18 | 0.02 | 0.01
 | 0.23 | 0.10 | 0.01
 | 0.09 | 0.01 | 0.01
 | 10:0 |
| BG
211 | 0.11 | 0.09 | 25.03 | 0.01
 | 0.18
 | 0.70 | 0.05 | 0.02
 | 0.28 | 0.55 | 0.03
 | 0.17 | 0.03 | 0.16
 | 0.02 |
| BE | 0.35 | 48.50 | 1.24 | 0.03
 | 1.67
 | 5.59 | 0.44 | 0.22
 | 0.14 | 1.27 | 0.44
 | 3.16 | 0.11 | 0.42
 | 0.39 |
| AT 1 | 30.52 | 0.47 | 0.66 | 0.02
 | 1.77
 | 8.78 | 0.19 | 0.09
 | 0.07 | 0.58 | 0.20
 | 0.79 | 0.25 | 1.09
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52 035 011 002 049 502 017 002 013 035 013 136 020 055 007 186 004 003 001 040 057 009 | A BE BS U U U U U U U V M | Al Bit Bit U U U V M VL P </th <th>A BE BG U/F U/C U/F U/F E E E E E F <th< th=""><th>41 65 67 0.2 0.2 0.4 65 1 14 1</th><th>AI BE BG CV CL DE BL BC DO DO<</th><th>AI BE BG CV CL DE BL DE DE<</th><th>M E S6 CV UC UC<th>M E S6 C/ C/ D/ E E D/ D/</th><th>A BE BG CV CZ DE DV CZ DE DV CV DV DV<!--</th--><th>M E Sig CV UC UC<!--</th--><th>M E 36 Q Q V E E 1 U V V M V</th><th>M E 36 Q Q V E 1 V</th><th>M E 36 Q Q V E E 1 U V M</th></th></th></th></th<></th> | A BE BG U/F U/C U/F U/F E E E E E F <th< th=""><th>41 65 67 0.2 0.2 0.4 65 1 14 1</th><th>AI BE BG CV CL DE BL BC DO DO<</th><th>AI BE BG CV CL DE BL DE DE<</th><th>M E S6 CV UC UC<th>M E S6 C/ C/ D/ E E D/ D/</th><th>A BE BG CV CZ DE DV CZ DE DV CV DV DV<!--</th--><th>M E Sig CV UC UC<!--</th--><th>M E 36 Q Q V E E 1 U V V M V</th><th>M E 36 Q Q V E 1 V</th><th>M E 36 Q Q V E E 1 U V M</th></th></th></th></th<> | 41 65 67 0.2 0.2 0.4 65 1 14 1 | AI BE BG CV CL DE BL BC DO DO< | AI BE BG CV CL DE BL DE DE< | M E S6 CV UC UC <th>M E S6 C/ C/ D/ E E D/ D/</th> <th>A BE BG CV CZ DE DV CZ DE DV CV DV DV<!--</th--><th>M E Sig CV UC UC<!--</th--><th>M E 36 Q Q V E E 1 U V V M V</th><th>M E 36 Q Q V E 1 V</th><th>M E 36 Q Q V E E 1 U V M</th></th></th> | M E S6 C/ C/ D/ E E D/ D/ | A BE BG CV CZ DE DV CZ DE DV CV DV DV </th <th>M E Sig CV UC UC<!--</th--><th>M E 36 Q Q V E E 1 U V V M V</th><th>M E 36 Q Q V E 1 V</th><th>M E 36 Q Q V E E 1 U V M</th></th> | M E Sig CV UC UC </th <th>M E 36 Q Q V E E 1 U V V M V</th> <th>M E 36 Q Q V E 1 V</th> <th>M E 36 Q Q V E E 1 U V M</th> | M E 36 Q Q V E E 1 U V V M V | M E 36 Q Q V E 1 V | M E 36 Q Q V E E 1 U V M |

In 2014, 6.86m tCO₂ emitted in the Czech Republic were embodied in German final demand.

 CO_2 emissions in the main diagonal including those emitted directly by households

(continues next page)

													ii.	Final demand of	nd of												
AT BE			_	23		CY CZ DE DK EE			ES					HU E T LT LT LU LV MT NL P. PT R0 SE SI SK W TOTAT	Ľ	IJ										ž	<u> </u>
1.51 1.40		0 0.32	2 0.12	2 0.65		9.72 0.59	59 0.07	70 0.97	7 3.36	6 0.35	5 8.84	34 0.50	50 0.47	47 0.30	0 263.22	0.18	0.14	60:0	0.13	1.36	1.77	0.59	1.08	0.91	0.52	0.33	4.93
0.17 0.16		6 0:02	2 0:00	0 0:06		0.83 0.14		0.13 0.02	2 0.13	3 0.08	18 0.53	53 0.01	20.0 IC	<u> 0.03</u>	3 0.26	7.05	0.01	0.28	00:0	0.13	0.45	0.04	0.04	0.19	0.01	0.03	0.38
0.09 0.44		10:0 #1	1 0:01	1 0.03		0.61 0.0	0.03 0.0	0.00 0.01	1 0.06	96 0.17	7 0.63	53 0:00	00 0.02	22 0.04	4 0.23	0.00	2.57	00:0	00:0	0.13	0.05	0.02	0.02	0.08	0.02	0.01	0.18
0.04	2	0.04 0.00	0 0:01	1 0.02		0.22 0.07		0.13 0.01	1 0.05	15 0.08	8 0.14	14 0:00	10:0 OC	10:0 IC	1 0.08	0.20	000	5.16	00:0	0.05	0.08	0.01	0.01	0.16	0.00	0.01	0.21
0.03 (2	0.02 0.10	0 0.01	1 0:01		0.05 0.0	0:03 0:00	20: 0:0Z	2 0.01	10:0 10	10 0.07	77 0.01	00:0 IC	0010 OC	0 0.13	0.01	00:0	00:0	1.69	0.02	0:04	000	0.02	0.03	0.00	0.00	0.52
1.10	4.	4.48 0.15	5 0.08	8 0.59		17.98 0.82		0.08 0.48	8 1.98	8 0.93	3 7.25	25 0.12	12 0.39	39 0.94	4 4.38	0.18	0.23	60:0	0.04	72.97	1.46	0.48	0.43	1.51	0.12	0.23	7.67
2.05	2.16	6 0.42	2 0.08	8 2.92		17.67 1.3	1.34 0.37	37 0.44	4 2.24	4 0.80	80 5.75	75 0.26	26 1.35	35 0.32	2 4.35	1.06	0.15	0.55	0.03	2.50	219.21	0.38	1.45	2.44	0.25	1.44	5.83
0.10	0.28	28 0.02	2 0:01	1 0.05		0.89 0.08	10:0 80	9070 IC	6 2.01	10.06	6 1.39	10:0 65	21 0.03	J3 0.07	7 0.51	0.01	0.02	10:0	00:0	0.25	0.13	33.12	0.05	0.15	0.01	0.02	0.75
0.81	0.59	59 0.53	3 0.02	2 0.23		2.76 0.1	0.14 0.0	0.02 0.28	8 0.57	57 0.08	8 1.55	55 0.07	0.47 0.47	47 0.06	5 1.86	0.03	0.04	0.01	0.01	0.43	0.50	0.08	56.39	0.29	0.06	0.16	06:0
0.18	0.32	52 0:03	3 0.02	2 0.10		1.59 0.8	0.82 0.07	J7 0.06	6 0.36	6 1.02	12 0.90	90 0.02	<u> 22 0.06</u>	JG 0:07	7 0.52	0.07	0.02	0.05	0.01	0.45	0.41	0.09	0.07	26.91	0.02	0.04	1.46
0.59	0.25	25 0.04	4 0.00	0 0.10		0.87 0.0	0.05 0.01	DI 0.03	3 0.10	0 0.02	12 0.41	41 0.31		0.13 0.01	1 0.69	0.01	0.01	0.01	00:0	60:0	0.15	0.02	0.07	0.10	7.00	0.05	0.19
0.79	0.27	27 0.07	7 0.01	1 0.86		2.66 0.1	0.13 0.0	0.02 0.06	6 0.35	5 0.07	17 0.94	34 0.07	J7 0.55	55 0.05	5 0.88	0.04	0.02	0.03	000	0.29	1.01	0.06	0.39	0.22	0.07	16.23	0.87
0.62	1.96	96 0.17	7 0.14	4 0.38		7.14 0.88	38 0.07	J7 0.44	4 2.18	8 0.49	19 5.95	90.0 SE	<u> 90 - 25</u>	25 2:42	2 3.22	0.11	0.21	0.08	0.07	2.16	1.12	0.53	0.32	1.54	0.08	0.14 37	375.82
54	~	76 29		6 67		698 3	35 1	13 72	2 213		38 327		15 3	38 33	3 315	Η	ŝ	œ	7	102	243	43	67	8	9	24	442 3,032
							9	2 emis	sions	in the i	main di	iagona	ul inclu	${\sf CO}_2$ emissions in the main diagonal including those emitted directly by households	iose em	iitted a	irectly	ру һоเ	lohası	sb							
670	tCC in tl der	In 2014, 698m tCO ₂ emitted France and 7.1 in the UK Gen in German final demand, 19n		ross tł iny wc CO ₂ in	ne EU 1s also Frena	were el the Mi	mbodi; ember demar	ed in G · State v 1d, 15n	ermai with n n tCO	n final nore C ; in the	demanı O ₂ emis ? UK'S fi	id: 59C ssions înal de)m tCC embol :mand	in 2014, 698m tCO ₂ emitted across the EU were embodied in German final demand: 590m tCO ₂ emitted in Germany, 18m tCO ₂ in the Netherlands and Paland, 9.7m tCO ₂ in Italy, 9.4m tCO ₂ in France and 7.1 in the UK Germany was also the Member State with more CO ₂ emissions embodied in the final demand of all Member States (700m tCO ₂), of which 590m tCO ₂ were embodied in German final demand of all Member States (700m tCO ₂), of which 590m tCO ₂ were embodied in German final demand of all Member States (700m tCO ₂), of which 590m tCO ₂ were embodied in German final demand. 19m tCO ₂ in French final demand, 15m tCO ₂ in the UK's final demand and 12.4mt CO ₂ in Italian final demand.	ted in G the finc 2.4mt C	erman Il demo 102 in I	y, 18rr and of talian	n tCO ₂ i all Mer final de	in the mber 2 emana	Nether States , I	lands a '700m	tCO ₂),	and, 9 of whi	:7m tC ch 59(CO ₂ in L	taly, 9.) ₂ were	4m tC embo
3.5	al der	nand, .		CO ₂ in	Frena	h final	demar	nd, 15n	n tCO	in th€		e inice inal de	emana	and 12	u ne jinn 2.4mt (02 in 1	talian	final de	ישמוו	, ,	100	۲. ۲.	5		-	, ,	

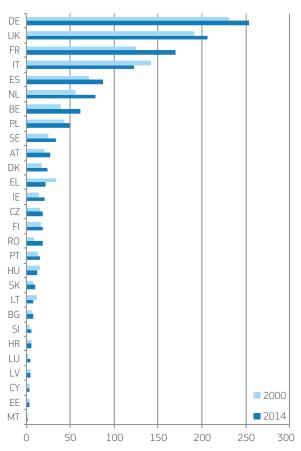
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A.5. Non-EU CO2 emissions embodied in the final demand of each Member State (2000, 2007, 2014; m tCO2)

	2000	2007	2014	2014 - 2000	2014 / 2000
AT	20	27	27	6	30.5%
BE	39	57	62	23	59.0%
BG	7	11	8	1	9.8%
СҮ	3	4	4	1	16.1%
CZ	15	21	19	4	26.2%
DE	232	311	254	23	9.7%
DK	17	27	24	6	36.1%
EE	4	4	3	0	-12.5%
EL	34	42	22	-12	-34.8%
ES	71	135	87	17	23.6%
FI	17	26	19	2	12.8%
FR	125	199	170	45	36.2%
HR	5	9	5	0	1.4%
HU	16	20	12	-4	-24.4%
IE	14	23	21	7	49.4%
IT	142	191	123	-19	-13.3%
LT	12	10	8	-4	-32.0%
LU	3	4	5	2	86.0%
LV	4	6	4	0	0.7%
MT	1	1	1	0	-13.5%
NL	56	93	79	23	40.3%
PL	43	49	50	7	15.6%
PT	14	19	15	2	13.7%
RO	9	23	18	9	97.2%
SE	25	34	34	8	31.5%
SI	4	7	6	2	57.2%
SK	8	13	10	2	26.4%
UK	192	256	207	15	7.8%
EU	1,131	1,624	1,296	165	14.6%

In 2014, around 62m tCO $_{\rm 2}$ emitted outside the EU were embodied in Belgium's final demand.

A.5. Non-EU CO2 emissions embodied in the final demand of each Member State (2000, 2014; m tCO2)



Between 2000 and 2014, the CO_2 emissions outside the EU embodied in EU final demand increased from 1,131m tCO_2 to 1,296m tCO_2 (+14%). This increase was mainly driven by France (+45m tCO_2), and Germany, Belgium and the Netherlands (+23m tCO_2 each). In 2014, 20% of CO_2 emissions outside the EU embodied in EU final demand were due to German final demand (254m tCO_2), 16% by the final demand of the UK (207m tCO_2), 13% by the final demand of France (170m tCO_2) and 9% by the final demand of Italy (123m tCO_2).

A.6. CO2 emissions footprint of each Member

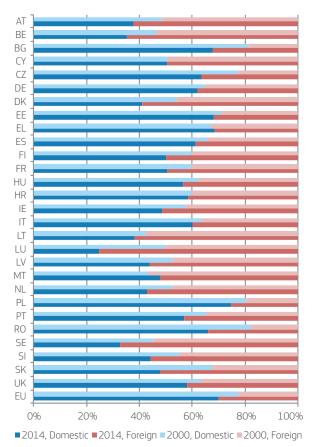
State (2000, 2014; % and m tCO2)

		2000			2014	
	Domestic	Foreign	Total	Domestic	Foreign	Total
AT	49%	51%	89	38%	62%	80
BE	46%	54%	146	35%	65%	138
BG	81%	19%	52	68%	32%	37
СҮ	51%	49%	9	51%	49%	10
CZ	77%	23%	108	63%	37%	86
DE	65%	35%	1,069	62%	38%	952
DK	54%	46%	65	41%	59%	58
EE	71%	29%	16	68%	32%	16
EL	67%	33%	143	68%	32%	94
ES	66%	34%	341	61%	39%	300
FI	60%	40%	65	50%	50%	57
FR	59%	41%	532	50%	50%	497
HR	60%	40%	21	58%	42%	20
HU	63%	37%	63	57%	43%	49
ΙE	57%	43%	50	49%	51%	53
IT	64%	36%	600	60%	40 %	438
LT	43%	57%	24	38%	62%	19
LU	50%	50%	11	25%	75%	10
LV	52%	48%	12	44%	56%	12
MT	43%	57%	5	48%	52%	4
NL	53%	47%	193	43%	57%	181
PL	80%	20%	315	75%	25%	293
PT	65%	35%	85	57%	43%	58
RO	82%	18%	78	66%	34%	85
SE	45%	55%	89	33%	67%	82
SI	55%	45%	20	44%	56%	16
SK	67%	33%	40	48%	52%	34
UK	64%	36%	748	58%	42%	649
EU	77%	23%	4,991	70%	30%	4,328

Domestic CO_2 emissions including those emitted directly by households

In 2014, around 438m tCO $_2$ were embodied in the final demand of Italy, of which 60% was emitted in Italy and 40% in other countries.

A.6. CO2 emissions footprint of each Member State (2000, 2014; %)



Between 2000 and 2014, total CO_2 emissions embodied in EU final demand decreased from 4,991m t CO_2 to 4,328m t CO_2 In 2014, 70% of the total CO_2 embodied in EU final demand was emitted in the EU (77% in 2000), while 30% was emitted in non-EU countries. In 12 EU Member States, more than 50% of the CO₂ emissions embodied in their final demand is located in other countries.

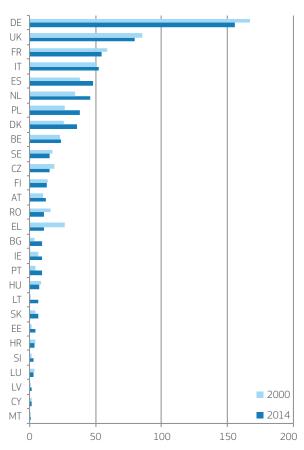
A.7. EU CO2 emissions by Member State embodied in non-EU final demand (2000, 2007, 2014; m ±CO2)

2007, 2014; m tCO2)

	2000	2007	2014	2014 - 2000	2014 / 2000
AT	11	16	12	2	17.2%
BE	23	23	24	1	3.7%
BG	4	10	9	6	154.5%
СҮ	1	1	1	0	2.0%
CZ	19	18	15	-4	-19.0%
DE	167	203	156	-11	-6.7%
DK	26	50	36	9	35.8%
EE	2	3	4	3	135.5%
EL	27	33	11	-16	-60.3%
ES	38	44	48	10	27.3%
FI	14	18	13	-1	-5.5%
FR	59	56	54	-5	-8.2%
HR	5	5	4	-1	-26.4%
HU	8	7	7	-1	-11.6%
IE	7	7	9	2	35.0%
IT	50	60	52	2	3.9%
LT	1	3	7	6	532.2%
LU	4	3	3	-1	-24.2%
LV	1	2	2	1	53.1%
MT	0	1	1	0	71.5%
NL	34	39	46	12	34.6%
PL	27	32	38	11	42.1%
PT	5	7	9	5	102.3%
RO	16	16	11	-4	-28.3%
SE	17	16	15	-2	-11.5%
SI	1	3	3	2	116.4%
SK	4	6	7	2	50.1%
UK	85	83	80	-6	-6.5%
EU	657	765	678	22	3.3%

In 2014, 54m tCO $_{\rm 2}$ of French emissions were embodied in the final demand of non-EU countries.

A.7. EU CO2 emissions by Member State embodied in non-EU final demand (2000, 2014; m tCO2)



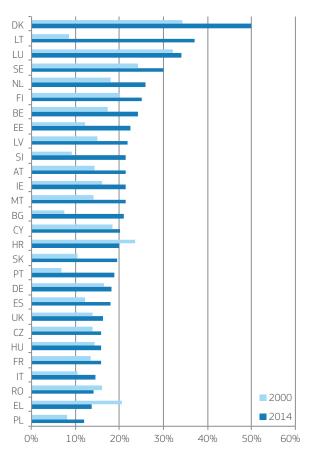
Between 2000 and 2014, EU CO₂ emissions embodied in non-EU final demand increased by 22m tCO₂ (+3.3%), to reach a total of 678m tCO₂. Most of the increase was in the Netherlands (+12m tCO₂). Poland (+11m tCO₂) and Spain (+10m tCO₂). In 2014, 156m tCO₂ emitted in Germany were embodied in the final demand of non-EU countries sup (23% of total EU CO₂ emissions embodied in non-EU final demand), 80m tCO₂ emitted in the V(12%), 54m tCO₂ emitted in France (8%) and 52m tCO₂ emitted in Italy (8%).

A.8. EU CO2 emissions by Member State embodied in non-EU final demand as a percentage of total CO2 emissions (2000, 2007, 2014; %)

	2000	2007	2014
AT	14.4%	20.0%	21.5%
BE	17.3%	19.3%	24.3%
BG	7.5%	17.2%	20.9%
СҮ	18.3%	9.3%	20.1%
CZ	14.0%	13.4%	15.8%
DE	16.5%	21.1%	18.2%
DK	34.4%	49.7%	50.0%
EE	12.1%	16.0%	22.4%
EL	20.4%	22.9%	13.6%
ES	12.2%	11.7%	17.9%
FI	20.1%	23.2%	25.1%
FR	13.5%	13.5%	15.7%
HR	23.5%	21.4%	19.9%
HU	14.3%	11.2%	15.8%
IE	16.0%	15.1%	21.4%
IT	10.4%	12.0%	14.6%
LT	8.4%	15.9%	37.1%
LU	32.0%	23.4%	34.0%
LV	14.9%	18.5%	21.8%
MT	14.0%	20.0%	21.4%
NL	18.0%	20.4%	26.0%
PL	8.2%	9.4%	12.0%
PT	6.8%	10.4%	18.8%
RO	16.1%	14.8%	14.0%
SE	24.2%	25.9%	30.0%
SI	9.2%	15.3%	21.5%
SK	10.5%	15.6%	19.6%
UK	13.8%	13.5%	16.3%
EU	14.5%	16.6%	18.3%

In 2014, 24.3% of the total ${\rm CO}_{\rm 2}$ emissions of Belgium were embodied in the final demand of non-EU countries.

A.8. EU CO2 emissions by Member State embodied in non-EU final demand as a percentage of total CO2 emissions (2000, 2014; %)



Between 2000 and 2014, the share of CO₂ emissions across the EU embodied in the final demand of non-EU countries increased from 14.5% in 2000 to 18.3% in 2014. In 2014, more than 25% of the total CO₂ emissions of Denmark, Finland, Lithuania, Luxembourg, the Netherlands and Sweden were embodied in non-EU final demand.

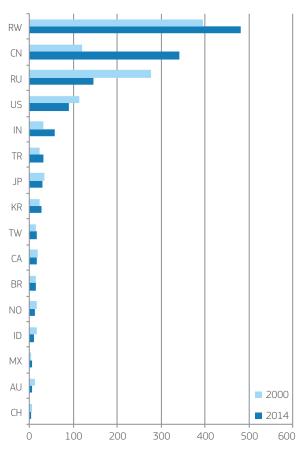
B. By trading partner

B.1. Non-EU CO2 emissions by country embodied in EU final demand (2000, 2007, 2014; m tCO2)

	2000	2007	2014	2014 - 2000	2014 / 2000
AU	14	12	7	-7	-48.6%
BR	16	20	15	-1	-4.9%
CA	19	26	17	-2	-12.8%
СН	6	5	4	-2	-33.8%
CN	120	438	342	222	184.3%
ID	17	16	11	-6	-35.1%
IN	32	48	58	26	82.1%
JP	34	45	29	-5	-14.3%
KR	24	28	27	3	10.6%
MX	5	8	7	2	50.0%
NO	17	20	12	-5	-27.3%
RU	278	249	145	-132	-47.7%
TR	24	35	31	7	29.3%
ΤW	16	24	17	1	6.8%
US	114	102	90	-24	-20.8%
RW	395	549	482	87	22.1%
Non-EU	1,131	1,624	1,296	165	14.6%

In 2014, 342m tCO₂ of Chinese emissions were embodied in EU final demand.

B.1. Non-EU CO2 emissions by country embodied in EU final demand (2000, 2014; m tCO2)



Between 2000 and 2014, the CO_2 emissions of non-EU countries embodied in EU final demand increased by 165m tCO₂ to a total of 1,296m tCO₂ (+15%). In 2014, 342m tCO₂ of Chinese emissions were embodied in EU final demand (26% of total non-EU CO₂ embodied in EU final demand), 145m tCO₂ of Russian emissions (11%) and 90m tCO₂ of the US emissions (7%).

B. By trading partner

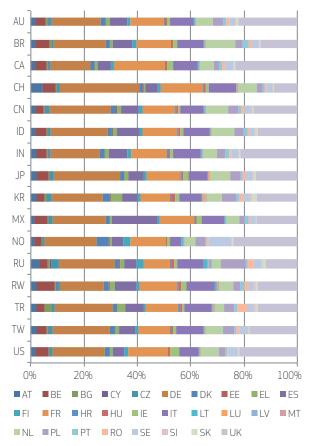
B.2. Non-EU CO2 emissions by country embodied in the final demand of each Member State (2014; m tCO2)

	Total	7	15	17	4	342	11	28	29	27	7	12	145	31	17	6	482	1,296
	۳	1.6	2.1	3.9	0.3	55.9	1.6	12.4	4.7	4.1	1.1	2.9	17.1	4.7	3.0	19.8	71.5	207 1
	ें रू	0:0	0.1	0.1	0:0	2.0	0.1	0.3	0.2	0.5	0:0	0:0	1.8	0.2	0.1	0.3	4.5	9
		0:0	0.1	0:0	0:0	1.5	0:0	0.2	0.1	0.2	0:0	0:0	0.5	0.2	0.1	0.2	2.5	9
		0.2	0.4	0.5	0.1	9.2	0.2	1.4	0.8	0.6	0.1	1.0	4.3	0.7	0.5	3.0	10.4	34
		0.1	0.2	0.2	0:0	3.6	0.1	0.6	0.3	0.4	0.1	0.1	3.6	1.3	0.2	0.6	7.1	18
	рт 	0.1	0.4	0.2	0:0	3.1	0.1	0.8	0.3	0.3	0.1	0.1	1.2	0.3	0.2	0.7	7.6	5
		0.3	0.4	0.3	0.1	13.9	0.4	1.8	1.1	1.5	0.2	0.4	13.3	1.1	0.7	1.9	12.8	50
		0.5	1.7	0.9	0.3	28.1	0.9	3.1	2.2	1.5	0.4	0.5	4.8	1.1	1.1	6.1	26.0	79
		0:0	0:0	0:0	0:0	0.4	0:0	0.1	0:0	0:0	0:0	0:0	0.1	0.1	0:0	0.1	0.4	
	٦	0:0	0:0	0:0	0:0	0.8	0:0	0.1	0:0	0.1	0:0	0:0	1.5	0.1	0:0	0.1	1.3	4
		0:0	0:0	0.1	0:0	1.0	0:0	0.1	0.1	0.4	0:0	0:0	0.6	0.1	0.1	0.4	1.9	ŝ
		0:0	0:0	0:0	0:0	1.2	0:0	0.2	0.1	0.1	0:0	0.1	2.5	0.1	0.1	0.2	3.4	∞
ef		0.6	1.5	1.5	0.4	29.3	1.1	5.9	2.1	2.3	0.6	0.5	14.4	3.2	1.7	6.8	50.9	123
Final demand of		0.1	0.2	0.4	0:0	3.5	0.1	0.7	0.5	0.4	0.1	0.1	1.5	0.3	0.2	2.9	9.5	7
Final o		0.1	0.1	0.1	0:0	2.7	0.1	0.3	0.3	0.4	0:0	0.1	1.8	0.2	0.1	0.7	49	11
		0:0	0:0	0:0	0:0	1.0	0.0	0.2	0.1	0.1	0:0	0:0	0.7	0.2	0.1	0.2	2.6	ŝ
		0.9	1.9	3.2	0.6	41.7	1.5	8.0	3.7	3.0	1.0	1.6	14.4	3.8	2.0	13.5	69.0	170
		0.1	0.3	0.2	0:0	5.2	0.1	0.7	0.3	0.4	0.1	0.3	3.8	0.3	0.2	12	5.6	61
	ES	0.5	1.1	0.8	0.2	22.7	0.9	4.1	1.7	1.5	1.2	0.5	6.5	2.2	1.0	4.0	38.5	87
		0.1	0.1	0.2	0:0	5.2	0.2	0.8	0.4	12	0.1	0.1	2.2	0.9	0.2	1.0	9.4	ដ
		0:0	0:0	0:0	0:0	0.8	0:0	0.1	0.1	0.1	0:0	0:0	0.8	0.1	0:0	0.1	1.0	m
		0.1	0.2	0.2	0.1	5.9	0.2	1.0	0.4	0.8	0.1	0.6	2.0	0.4	0.3	1.7	9.5	24
		1.3	2.9	2.5	1.2	79.3	2.4	10.7	7.2	5.2	1.5	2.4	31.0	6.8	3.7	17.7	78.5	254
	23	0.1	0.1	0.1	0:0	5.4	0.1	0.5	0.4	0.5	0.1	0.1	3.7	0.4	0.3	0.8	6.1	19
	3	0:0	0:0	0:0	0:0	0.7	0:0	0.1	0.1	0:0	0:0	0:0	1.0	0:0	0:0	0.1	1.5	4
		0.1	0.1	0.1	0:0	1.5	0.1	0.3	0.1	0.1	0:0	0:0	1.2	0.8	0.1	0.2	3.0	8
		0.3	0.9	0.8	0.2	11.0	0.5	2.3	1.3	0.9	0.4	0.3	4.6	0.9	0.6	4.7	32.1	62
	AT	0.1	0.2	0.3	0.2	5.6	0.2	1.1	0:6	0.6	0.1	0.2	4.6	0.7	0.4	15	10.4	27
		AU	BR	CA	СH	CN	Q	N	μ	KR K	ХИ	ΟN	RU	TR	M	SU	RW	Non-EU
		A	B	0	0	C	11		suo		_		EK.	1	F	0	æ	Z

In 2014, 79.3m tCO $_2$ of Chinese emissions were embodied in the final demand of Germany.

40

B.2. Non-EU CO2 emissions by country embodied in the final demand of each Member State (2014; %)



In 2014, 1,296m tCO₂ emitted outside the EU were embodied in the final demand of the EU. Most of the CO₂ was emitted in China (342m tCO₂), of which 79m tCO₂ were embodied in German final demand, 56 in the UK's final demand and 42m tCO₂ in French final demand. Germany was the Member State with more non-EU CO₂ emissions embodied in its final demand (254m tCO₂).

B.3. Non-EU CO2 emissions by country embodied in non-EU final demand (2000,

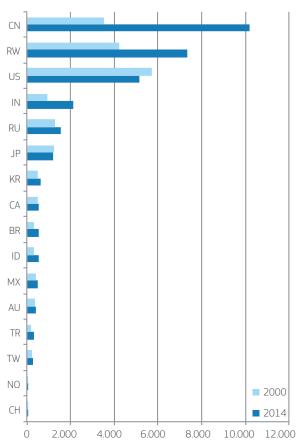
	2000	2007	2014	2014 - 2000	2014 / 2000
AU	362	413	398	36	9.8%
BR	345	380	557	213	61.7%
CA	508	552	560	52	10.3%
СН	40	39	38	-3	-6.7%
CN	3,547	7,093	10,186	6,639	187.2%
ID	316	411	532	216	68.2%
IN	963	1,348	2,135	1,172	121.8%
JP	1,233	1,265	1,223	-10	-0.8%
KR	517	557	643	126	24.3%
MX	402	471	481	79	19.7%
NO	46	49	39	-7	-14.9%
RU	1,307	1,453	1,554	247	18.9%
TR	201	277	326	125	61.8%
ΤW	261	303	298	37	14.1%
US	5,740	5,661	5,167	-573	-10.0%
RW	4,244	5,778	7,353	3,109	73.3%
Non-EU	20,032	26,050	31,489	11,457	57.2%

2007, 2014; m tCO2)

CO, emissions including those emitted directly by households

In 2014, 557m tCO₂ emitted in Brazil were embodied in non-EU final demand.

B.3. Non-EU CO2 emissions by country embodied in non-EU final demand (2000, 2014; m tCO2)



Between 2000 and 2014, the CO_2 emissions in non-EU countries embodied in non-EU final demand increased by 11,457m tCO₂ to a total of 31,489m tCO₂ (+57%). In 2014, 10,186m tCO₂ emitted in China were embodied in non-EU final demand (32% of total non-EU emissions embodied in non-EU final demand), 5,167m tCO₂ emitted in the US (16%) and 2,135m tCO₂ emitted in India (7%).

B.4. CO2 emissions footprint of each non-EU

country (2000, 2014; % and m tCO2)

		2000			2014	
	Domestic	Foreign	Total	Domestic	Foreign	Total
AU	77%	23%	357	64%	36%	472
BR	80%	20%	370	72%	28%	655
CA	72%	28%	457	65%	35%	570
СН	35%	65%	99	30%	70%	102
CN	93%	7%	3,223	91%	9%	9,212
ID	81%	19%	286	76%	24%	582
IN	91%	9%	938	89%	11%	2,038
JP	67%	33%	1,537	66%	34%	1,416
KR	74%	26%	487	64%	36%	611
MX	76%	24%	440	75%	25%	513
NO	43%	57%	43	39%	61%	58
RU	95%	5%	902	87%	13%	1,325
TR	69%	31%	254	70%	30%	368
TW	64%	36%	254	60%	40%	232
US	81%	19%	6,656	79%	21%	6,091
RW	75%	25%	4,386	73%	27%	7,922
Non-EU	97%	3%	20,689	98%	2%	32,168

Domestic CO₂ emissions including those emitted directly by households

In 2014, 9,212m tCO_2 were embodied in Chinese final demand, of which 91% was emitted in China and 9% in other countries.



B.4. CO2 emissions footprint of each non-EU country (2000, 2014; %)

Between 2000 and 2014, total CO₂ emissions embodied in non-EU final demand increased from 20,689 tCO₂ to 32,168m tCO₂ In 2014, 98% of the total CO₂ embodied in non-EU final demand was emitted in non-EU countries, while 4% was emitted in EU Member States. In all non-EU countries except Switzerland and Norway, most of the CO₂ embodied in its final demand is emitted within the own country. In China, India, and Russia more than 80% of the CO₂ emissions embodied in their final demand is domestic.

C. By industry or sector

'U Trade in CO₂ Emissions

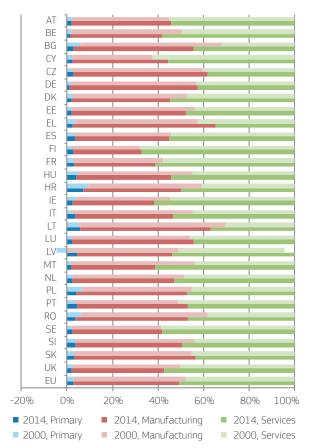
C.1. EU CO2 emissions embodied in the final demand of each Member State by sector of final demand (2000, 2014; % and m tCO2)

		Z	2000		2014				
	Р	М	5	Total		М	5	Total	
AT	2%	43%	55%	54	2%	44%	54%	40	
BE	2%	48%	50%	77	1%	40%	58%	51	
BG	6%	62%	32%	42	3%	53%	44%	27	
СҮ	3%	35%	63%	5	2%	42%	56%	5	
CZ	2%	58%	40%	80	3%	59%	38%	53	
DE	2%	54%	43%	646	1%	56%	43%	519	
DK	2%	50%	47%	38	2%	43%	55%	27	
EE	2%	54%	44%	12	2%	50%	48%	12	
EL	4%	54%	42%	95	2%	63%	35%	57	
ES	3%	43%	54%	222	4%	41%	55%	150	
FI	2%	30%	68%	42	3%	30%	67%	32	
FR	3%	39%	58%	292	3%	35%	61%	212	
HR	10%	49%	41%	14	7%	43%	50%	10	
HU	5%	50%	45%	34	4%	41%	54%	25	
IE	4%	41%	55%	25	3%	36%	62%	21	
IT	3%	53%	45%	331	4%	43%	53%	218	
LT	5%	65%	31%	11	6%	57%	37%	8	
LU	2%	52%	46%	5	2%	53%	44%	4	
LV	-5%	54%	51%	6	5%	42%	54%	6	
MT	2%	55%	44%	3	2%	37%	61%	2	
NL	3%	49%	49%	98	2%	45%	53%	69	
PL	7%	48%	45%	235	4%	49%	47%	197	
PT	3%	46%	51%	61	5%	49%	47%	35	
RO	7%	55%	38%	58	4%	49%	47%	53	
SE	2%	39%	59%	52	3%	39%	58%	39	
SI	4%	53%	44%	13	4%	47%	50%	7	
SK	3%	52%	45%	26	3%	53%	44%	18	
UK	2%	47%	50%	407	2%	41%	57%	318	
EU	3%	49%	48%	2,983	3%	46%	51%	2,213	

P: primary; M: manufacturing; S: services

In 2014, 519m tCO2 emitted across the EU were embodied in German final demand, of which 43% was embodied in the final demand of services.

C.1. EU CO2 emissions embodied in the final demand of each Member State by sector of final demand (2000, 2014; %)



In 2014, 51% of the EU CO_2 emissions embodied in EU final demand were embodied in the final demand of services (up from 48% in 2000). The final demand of manufacturing and primary products accounted for 46% and 3% respectively (compared to 49% and 3% in 2000). In 2014, in 15 Member States more than 50% of the EU CO_2 emissions embodied in their final demand were in the demand of services.

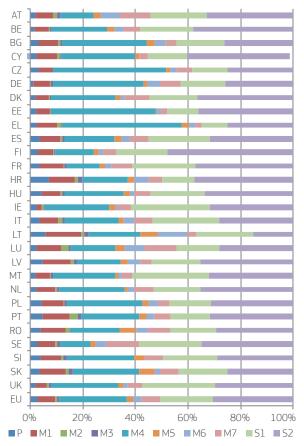
C.2. EU CO2 emissions embodied in the final demand of each Member State by industry of final demand (2014; % and m tCO2)

	P	M1	M2	M3	M4	M5	M6	M7	S1	S 2	Total
AT	2%	7%	2%	1%	13%	3%	7%	12%	21%	33%	40
BE	1%	6%	1%	1%	21%	3%	4%	6%	20%	38%	51
BG	3%	7%	1%	1%	32%	3%	4%	4%	18%	26%	27
СҮ	2%	8%	1%	1%	29%	2%	-1%	3%	15%	40%	5
CZ	3%	5%	0%	0%	43%	2%	2%	6%	13%	25%	53
DE	1%	6%	0%	1%	34%	2%	4%	8%	17%	26%	519
DK	2%	5%	0%	1%	24%	2%	2%	9%	18%	37%	27
EE	2%	5%	0%	0%	40%	0%	2%	3%	12%	36%	12
EL	2%	8%	1%	1%	45%	3%	2%	2%	10%	25%	57
ES	4%	8%	1%	1%	19%	3%	3%	7%	23%	32%	150
FI	3%	6%	0%	1%	15%	2%	2%	5%	19%	48%	32
FR	3%	9%	0%	1%	13%	2%	2%	8%	24%	37%	212
HR	7%	10%	1%	1%	18%	2%	5%	5%	12%	38%	10
HU	4%	7%	1%	1%	23%	2%	2%	6%	21%	34%	25
IE	3%	2%	1%	0%	25%	2%	1%	5%	30%	32%	21
IT	4%	7%	1%	1%	20%	2%	4%	7%	25%	28%	218
LT	6%	13%	1%	2%	20%	7%	11%	4%	22%	15%	8
LU	2%	9%	3%	1%	17%	3%	7%	12%	16%	28%	4
LV	5%	11%	1%	1%	16%	3%	5%	4%	18%	35%	6
MT	2%	5%	1%	1%	23%	1%	1%	4%	29%	32%	2
NL	2%	7%	1%	1%	25%	1%	2%	8%	17%	35%	69
PL	4%	8%	0%	1%	29%	2%	4%	4%	16%	31%	197
PT	5%	10%	3%	1%	22%	3%	3%	6%	15%	32%	35
RO	4%	10%	1%	1%	18%	6%	4%	9%	17%	29%	53
SE	3%	7%	1%	1%	12%	2%	4%	13%	24%	35%	39
SI	4%	8%	1%	1%	26%	4%	0%	7%	20%	2 9 %	7
SK	3%	10%	1%	2%	25%	6%	2%	7%	19%	25%	18
UK	2%	4%	1%	1%	26%	2%	2%	6%	27%	30%	318
EU	3%	7%	1%	1%	26%	2%	3%	7%	20%	30%	2,213

P: primary; M1: food, beverages, tobacco; M2: textiles; M3: wood, paper, printing; M4: energy; M5: chemicals; M6: other non-metallic and basic metals; M7: machinery and transport equipment; S1: transport, trade and business services; S2: other services.

In 2014, 27m tCO₂ emitted in the EU were embodied in the final demand of Bulgaria, of which 4% was embodied in the Bulgarian final demand of products of the machinery and transport equipment industries (M7).





In 2014, 30% of the EU CO_2 emissions embodied in EU final demand were embodied in the final demand of other services (S2), 26% in the final demand of energy products (M4), 20% in the final demand of transport, trade and business services (S1), and 7% in the final demand of products of both the machinery and transport equipment industries (M7) and the food, beverages and tobacco industries (M1).

C.3. EU CO2 emissions by Member State embodied in EU final demand by sector

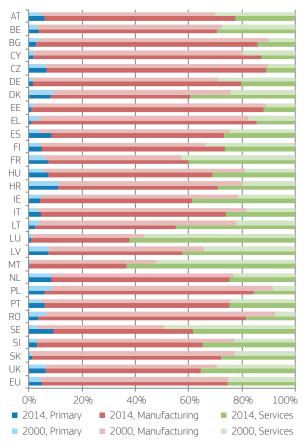
(2000, 2014; % and m tCO2)

			2000				2014	
	Р	М		Total		М	5	Total
AT	5%	65%	30%	48	6%	71%	22%	31
BE	3%	69%	27%	79	4%	67%	29%	48
BG	4%	86%	10%	43	3%	83%	14%	34
СҮ	2%	78%	20%	5	2%	86%	13%	4
CZ	6%	83%	10%	102	7%	82%	11%	67
DE	2%	69%	29%	652	2%	78%	20%	520
DK	10%	66%	24%	40	8%	52%	40%	28
EE	2%	87%	11%	13	1%	87%	12%	14
EL	4%	78%	18%	90	1%	84%	14%	54
ES	4%	71%	25%	226	9%	65%	27%	159
FI	4%	62%	34%	47	5%	68%	26%	32
FR	6%	51%	43%	263	8%	52%	40%	176
HR	11%	69%	20%	13	11%	60%	29%	10
HU	6%	75%	19%	37	7%	61%	31%	27
ΙE	5%	73%	22%	26	4%	57%	39%	23
IT	3%	79%	18%	306	5%	69%	26%	207
LT	4%	73%	22%	10	2%	53%	45%	9
LU	2%	42%	57%	4	1%	37%	62%	4
LV	8%	58%	34%	6	8%	50%	42%	5
MT	1%	47%	52%	3	0%	36%	63%	3
NL	9%	68%	23%	118	9%	67%	25%	99
PL	9%	82%	9%	262	6%	78%	16%	232
PT	5%	71%	24%	53	6%	69%	25%	32
RO	6%	86%	8%	71	4%	78%	19%	55
SE	3%	48%	49%	43	9%	52%	38%	27
SI	3%	74%	23%	11	3%	62%	35%	8
SK	1%	76%	23%	32	1%	71%	28%	22
UK	6%	64%	30%	382	6%	58%	35%	284
EU	5%	70%	25%	2,983	5%	69 %	25%	2,213

P: primary; M: manufacturing; S: services

In 2014, 32m tCO₂ emitted in Finland were embodied in the final demand of the whole EU, of which 26% was emitted by the services sector.

C.3. EU CO2 emissions by Member State embodied in EU final demand by sector (2000, 2014; %)



In 2014, 69% of the EU CO_2 emissions embodied in EU final demand were emitted by the manufacturing sector (down from 70% in 2000), 25% by the services sector (same as in in 2000) and 5% by the primary sector (same as in 2000). In 2014, the manufacturing sector accounted for at least 50% of the CO_2 emissions embodied in EU final demand in all Member States except in Luxembourg and Malta.

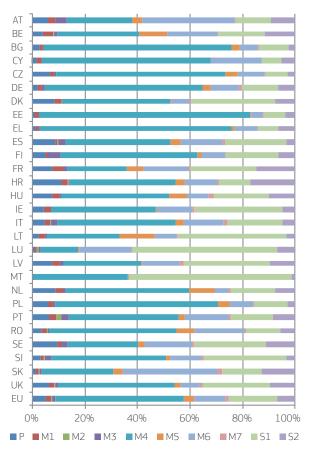
C.4. EU CO2 emissions by Member State embodied in EU final demand by industry (2014: % and m t(02)

	P	M1	M2	M3	M4	M5	M6	M7	S1	S 2	Total
AT	6.1%	2.6%	0.1%	4.3%	24.7%	4.1%	35.0%	0.7%	13.4%	9.0%	31
BE	3.9%	4.1%	0.3%	1.0%	31.4%	10.5%	19.0%	0.7%	17.6%	11.6%	48
BG	2.8%	1.0%	0.2%	0.4%	71.3%	3.3%	6.7%	0.2%	11.3%	2.7%	34
СҮ	1.6%	1.7%	0.0%	0.2%	64.1%	0.1%	19.4%	0.1%	7.5%	5.1%	4
CZ	6.9%	1.4%	0.1%	0.6%	64.4%	4.6%	10.2%	0.7%	8.2%	2.8%	67
DE	1.9%	1.5%	0.1%	1.1%	60.2%	2.9%	10.6%	1.3%	13.9%	6.4%	520
DK	8.4%	2.8%	0.0%	0.3%	40.8%	0.7%	6.7%	0.6%	32.0%	7.6%	28
EE	1.0%	1.3%	0.1%	0.5%	80.2%	0.1%	4.6%	0.3%	8.2%	3.8%	14
EL	1.2%	1.2%	0.0%	0.2%	73.2%	1.3%	8.6%	0.0%	7.9%	6.5%	54
ES	8.7%	1.0%	0.3%	2.6%	40.1%	3.9%	15.8%	1.0%	23.4%	3.4%	159
FI	5.2%	0.6%	0.0%	4.9%	51.8%	1.8%	9.1%	0.1%	19.9%	6.5%	32
FR	7.6%	4.1%	0.2%	1.5%	22.3%	6.7%	16.6%	0.9%	25.3%	14.8%	176
HR	11.1%	2.5%	0.1%	0.5%	40.3%	3.4%	12.3%	0.7%	12.0%	17.2%	10
HU	7.5%	2.6%	0.2%	0.7%	41.2%	6.7%	8.2%	1.9%	21.1%	9.9%	27
ΙE	4.3%	2.6%	0.0%	0.2%	39.6%	0.7%	13.4%	0.6%	33.9%	4.7%	23
IT	4.6%	1.9%	0.7%	2.1%	45.1%	3.2%	15.0%	1.5%	21.1%	4.9%	207
LT	2.4%	2.4%	0.1%	0.8%	27.6%	13.5%	8.2%	0.3%	41.7%	3.1%	9
LU	0.9%	0.6%	0.9%	0.7%	14.2%	0.3%	19.8%	0.3%	55.3%	7.0%	4
LV	7.7%	2.4%	0.1%	1.5%	29.8%	0.3%	14.3%	1.4%	32.8%	9.7%	5
MT	0.4%	0.1%	0.0%	0.0%	35.7%	0.0%	0.1%	0.4%	62.0%	1.2%	3
NL	8.6%	3.0%	0.1%	0.7%	47.2%	9.7%	5.1%	0.7%	17.2%	7.6%	99
PL	6.0%	1.9%	0.1%	0.9%	61.9%	4.1%	9.1%	0.3%	12.6%	3.1%	232
PT	6.1%	2.9%	1.8%	2.8%	41.8%	2.7%	16.3%	0.7%	16.3%	8.5%	32
RO	3.6%	2.0%	0.2%	0.6%	48.5%	6.8%	18.9%	0.8%	12.9%	5.7%	55
SE	9.4%	1.5%	0.1%	2.2%	26.9%	2.6%	17.8%	1.1%	27.0%	11.3%	27
SI	3.3%	1.2%	0.2%	2.6%	43.7%	1.3%	11.8%	1.0%	31.4%	3.4%	8
SK	1.2%	1.2%	0.2%	0.8%	27.2%	3.7%	35.9%	1.7%	15.3%	12.7%	22
UK	6.3%	2.1%	0.4%	1.2%	44.1%	2.4%	7.0%	1.2%	25.7%	9.6%	284
EU	5.1%	2.0%	0.2%	1.4%	48.9%	3.9%	12.0%	1.0%	18.5%	7.0%	2,213

P: primary; M1: food, beverages, tobacco; M2: textiles; M3: wood, paper, printing; M4: energy; M5: chemicals; M6: other non-metallic and basic metals; M7: machinery and transport equipment; S1: transport, trade and business services; S2: other services.

In 2014, 32m tCO₂ emitted in Portugal were embodied in the final demand of the whole EU, of which 1.8% was emitted by the textile industry (M2).

C.4. EU CO2 emissions by Member State embodied in EU final demand by industry (2014; %)



In 2014, 49% of the EU CO_2 emissions embodied in EU final demand were emitted by the energy industry (M4), 19% by transport, trade and business services industries (S1), 12% by other non-metallic and basic metals industries (M6), and 7% by other services (S2).

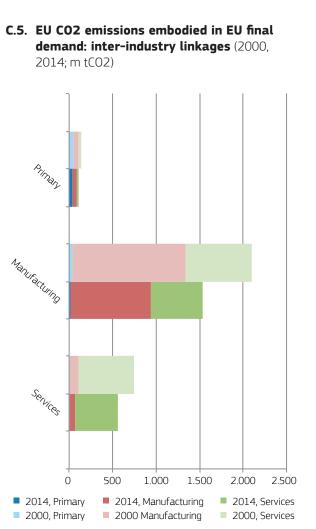
C.5. EU CO2 emissions embodied in EU final demand: inter-industry linkages (2000, 2014; m tCO2)

					Fi	nal p	rodu	cer (2000)		
		Р	М1	М2	М3	M4	M5	М6	М7	51	52	Total
	Р	52.3	29.3	1.2	0.8	18.2	1.4	1.9	5.8	9.3	22.4	142
	M1	1.4	50.8	0.3	0.1	0.2	0.3	0.1	0.7	1.8	9.2	65
_	M2	0.1	0.2	14.2	0.1	0.1	0.1	0.1	1.0	0.7	1.5	18
s in	M3	0.5	3.4	0.7	11.5	0.7	0.7	0.6	4.1	8.4	12.7	43
emissions	M4	22.2	65.0	19.3	11.7	651.4	21.0	23.6	81.3	144.9	301.1	1,341
niss	M5	4.2	7.8	4.0	1.6	4.5	47.1	4.7	13.9	10.7	27.3	126
	M6	4.7	15.2	3.7	2.1	11.9	4.8	80.9	104.7	34.0	198.6	461
C02	M7	0.3	0.7	0.2	0.1	0.5	0.2	0.3	31.9	2.7	5.6	42
	S1	5.2	24.5	7.2	2.9	10.1	6.0	6.0	38.5	338.8	100.3	539
	52	0.3	1.1	0.3	0.1	0.9	0.3	0.3	1.9	6.2	192.9	204
	Total	91	198	51	31	699	82	119	284	557	872	2,983

					Fi	nal p	rodu	cer (2014)		
		Р	М1	М2	М3	M4	M5	М6	М7	S1	52	Total
	Р	38.1	31.4	0.5	0.4	10.6	0.8	0.8	2.7	7.4	20.2	113
	M1	0.9	32.1	0.1	0.0	0.2	0.2	0.1	0.4	2.1	8.4	45
	М2	0.0	0.1	3.5	0.0	0.0	0.0	0.0	0.3	0.4	0.8	5
s in	M3	0.3	2.9	0.3	6.9	0.7	0.5	0.4	2.2	6.3	9.6	30
emissions	M4	12.5	49.7	6.2	6.7	531.9	14.3	17.9	55.6	129.7	258.4	1,083
niss	M5	2.4	5.9	1.5	0.9	5.6	26.8	3.1	8.7	9.7	22.7	87
	M6	2.3	9.9	1.1	1.0	7.3	2.6	46.2	46.7	24.8	122.8	265
C02	М7	0.1	0.4	0.1	0.1	0.4	0.1	0.2	14.8	1.8	3.4	21
	S1	3.3	17.8	2.5	1.6	10.1	3.7	3.9	20.8	264.5	81.1	409
	52	0.2	0.9	0.1	0.1	1.1	0.2	0.2	1.2	6.0	144.7	155
	Total	60	151	16	18	568	49	73	153	453	672	2,213

P: primary; M1: food, beverages, tobacco; M2: textiles; M3: wood, paper, printing; M4: energy; M5: chemicals; M6: other non-metallic and basic metals; M7: machinery and transport equipment; S1: transport, trade and business services; S2: other services.

In 2014, 3.7m tCO₂ emitted by the EU transport, trade and business services industries (S1) were embodied in the EU final demand of products of the chemical industry (MS).



In 2014, 1,536m tCO₂ emitted by the manufacturing sectors across the EU were embodied in EU final demand, of which 916m tCO₂ were embodied in the EU final demand of products of the manufacturing sector and 601m tCO₂ were embodied in the EU final demand of services. In 2014, 564m tCO₂ emitted by the services sectors across the EU were embodied in EU final demand, of which 496m tCO₂ were embodied in the EU final demand of services and 64m tCO₂ were embodied in the EU final demand of services and 64m tCO₂ were embodied in the EU final demand of services and 64m tCO₂ were embodied in the EU final demand of services and 64m tCO₂ were embodied in the EU final demand of services and 64m tCO₂ were embodied in the EU final demand of services and 64m tCO₂ were embodied in the EU final demand of services and 64m tCO₂ were embodied in the EU final demand of services and 64m tCO₂ were embodied in the EU final demand of services and 64m tCO₂ were embodied in the EU final demand of services and 64m tCO₂ were embodied in the EU final demand of services and 64m tCO₂ were embodied in the EU final demand of services and 64m tCO₂ were embodied in the EU final demand of services and 64m tCO₂ were embodied in the EU final demand of products of the manufacturing sector.

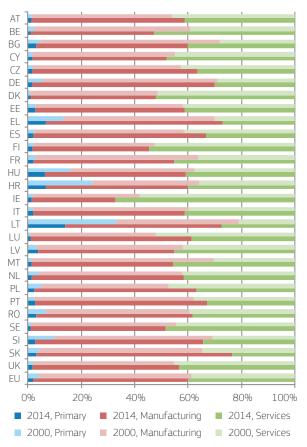
C.6. Non-EU CO2 emissions embodied in the final demand of each Member State by sector of final demand (2000, 2014; % and m tCO2)

		2	000		2014					
	Р	М		Total	Р	М		Total		
AT	1%	53%	46%	20	1%	58%	41%	27		
BE	2%	58%	39%	39	1%	46 %	53%	62		
BG	5%	67%	28%	7	3%	57%	40%	8		
СҮ	2%	54%	45%	3	2%	50%	48%	4		
CZ	2%	55%	43%	15	2%	62%	36%	19		
DE	6%	65%	29%	232	2%	68%	30%	254		
DK	1%	47%	51%	17	1%	47%	52%	24		
EE	3%	55%	42%	4	3%	56%	41%	3		
EL	13%	57%	30%	34	7%	66%	27%	22		
ES	2%	56%	42%	71	2%	64%	33%	87		
FI	2%	46%	52%	17	2%	44%	55%	19		
FR	3%	61%	36%	125	2%	53%	45%	170		
HR	24%	40%	36%	5	7%	53%	40%	5		
HU	16%	47%	38%	16	6%	53%	41%	12		
IE	2%	40%	58%	14	2%	31%	67%	21		
IT	2%	58%	40%	142	2%	57%	41%	123		
LT	33%	46%	21%	12	14%	58%	28%	8		
LU	1%	47%	52%	3	1%	60%	39%	5		
LV	3%	55%	42%	4	4%	51%	45%	4		
MT	2%	68%	31%	1	1%	53%	46%	1		
NL	4%	53%	42%	56	1%	57%	42%	79		
PL	5%	48%	47%	43	3%	60%	37%	50		
PT	3%	59%	38%	14	3%	64%	33%	15		
RO	7%	54%	39%	9	3%	58%	38%	18		
SE	1%	54%	44%	25	1%	50%	48%	34		
SI	10%	59%	31%	4	3%	63%	35%	6		
SK	4%	61%	35%	8	3%	73%	24%	10		
UK	2%	53%	45%	192	2%	55%	44%	207		
EU	4%	57%	39%	1,131	2%	58%	40%	1,296		

P: primary; M: manufacturing; S: services

In 2014, 62m tCO2 emitted outside the EU were embodied in Belgian final demand, of which 46% was embodied in Belgian final demand of manufactures.

C.6. Non-EU CO2 emissions embodied in the final demand of each Member State by sector of final demand (2000, 2014; %)



In 2014, 58% of the non-EU CO₂ emissions embodied in EU final demand were embodied in products of the manufacturing sector (57% in 2000), 40% was embodied in the final demand of services (39% in 2000) and 2% in the final demand of products of the primary sector (4% in 2000).

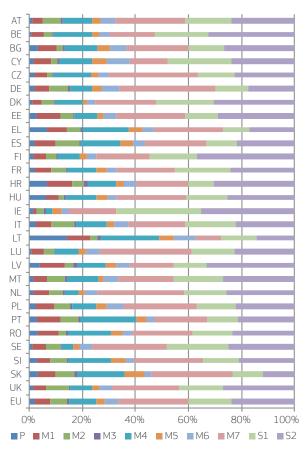
C.7. Non-EU CO2 emissions embodied in the final demand of each Member State by industry of final demand (2014; % and m tCO2)

	P	M1	M2	M3	M4	M5	M6	M7	S 1	S 2	Total
AT	1%	4%	7%	1%	11%	3%	5%	27%	17%	24%	27
BE	1%	4%	3%	0%	15%	3%	4%	17%	20%	33%	62
BG	3%	7%	2%	1%	12%	5%	6%	23%	13%	27%	8
СҮ	2%	6%	2%	1%	12%	6%	9%	14%	24%	24%	4
CZ	2%	5%	2%	0%	14%	3%	4%	34%	14%	23%	19
DE	2%	6%	7%	1%	8%	3%	7%	36%	13%	17%	254
DK	1%	4%	5%	0%	10%	2%	3%	23%	22%	31%	24
EE	3%	9%	5%	0%	<i>9</i> %	2%	5%	26%	12%	2 9 %	3
EL	7%	8%	5%	1%	18%	5%	4%	26%	10%	17%	22
ES	2%	8%	9%	1%	15%	5%	4%	23%	11%	22%	87
FI	2%	5%	4%	0%	8%	3%	4%	20%	18%	37%	19
FR	2%	6%	6%	0%	11%	4%	3%	22%	21%	24%	170
HR	7%	9%	4%	2%	11%	3%	5%	20%	10%	30%	5
HU	6%	5%	2%	1%	12%	4%	3%	26%	15%	26%	12
ΙE	2%	1%	3%	1%	2%	4%	3%	18%	32%	35%	21
IT	2%	6%	9%	1%	11%	3%	5%	21%	19%	22%	123
LT	14%	9%	3%	1%	22%	6%	8%	10%	13%	14%	8
LU	1%	5%	4%	0%	9%	3%	5%	35%	16%	23%	5
LV	4%	9%	3%	1%	11%	4%	5%	17%	12%	33%	4
MT	1%	5%	7%	1%	12%	2%	5%	21%	18%	27%	1
NL	1%	6%	5%	1%	5%	2%	5%	33%	16%	26%	79
PL	3%	7%	6%	1%	9%	4%	6%	28%	15%	22%	50
PT	3%	9%	7%	1%	21%	4%	3%	20%	12%	21%	15
RO	3%	8%	3%	1%	16%	4%	4%	23%	15%	23%	18
SE	1%	5%	5%	1%	4%	2%	5%	28%	23%	25%	34
SI	3%	5%	6%	0%	16%	6%	3%	26%	14%	21%	6
SK	3%	7%	7%	1%	18%	8%	3%	30%	12%	12%	10
UK	2%	4%	9%	1%	8%	3%	5%	25%	17%	27%	207
EU	2%	6%	7%	1%	10%	3%	5%	26%	16%	24%	1,296

P: primary; M1: food, beverages, tobacco; M2: textiles; M3: wood, paper, printing; M4: energy; M5: chemicals; M6: other non-metallic and basic metals; M7: machinery and transport equipment; S1: transport, trade and business services; S2: other services.

In 2014, 3m tCO₂ emitted outside the EU were embodied in Estonian final demand, of which 9% was embodied in the final demand of products of the food, beverages and tobacco industries (M1).

C.7. Non-EU CO2 emissions embodied in the final demand of each Member State by industry of final demand (2014; %)



In 2014, 26% of the CO_2 emissions outside the EU embodied in EU final demand were embodied in the final demand of products of the machinery and transport equipment industries (M7), 24% in the final demand of other services (S2), 16% in the final demand of transport, trade and business services (S1), 10% in the final demand of products of the energy industry (M4) and 7% in the final demand of textiles (M2).

C.8. Non-EU CO2 emissions by country embodied in EU final demand by sector

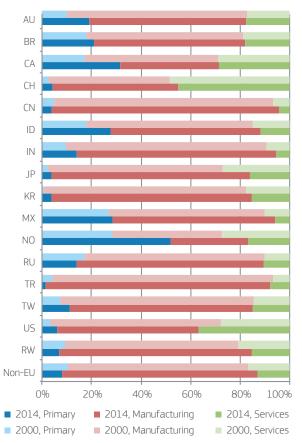
		20	00		2014						
	P	М		Total	Р	М		Total			
AU	10%	73%	17%	14	19%	63%	18%	7			
BR	18%	63%	19%	16	21%	61%	18%	15			
CA	17%	54%	29%	19	31%	40%	29%	17			
СН	3%	49%	49%	6	4%	51%	45%	4			
CN	5%	88%	7%	120	4%	92%	4%	342			
ID	18%	67%	15%	17	28%	61%	12%	11			
IN	10%	81%	10%	32	14%	80%	6%	58			
JP	2%	71%	27%	34	4%	80%	16%	29			
KR	1%	82%	18%	24	4%	81%	15%	27			
MX	27%	63%	10%	5	28%	66%	6%	7			
NO	28%	44%	27%	17	52%	32%	17%	12			
RU	17%	72%	10%	278	14%	75%	11%	145			
TR	4%	89%	7%	24	2%	91%	8%	31			
TW	7%	78%	15%	16	11%	74%	15%	17			
US	4%	69%	28%	114	6%	57%	37%	90			
RW	9%	70%	21%	395	7%	78%	15%	482			
Non-EU	10%	73%	17%	1,131	8%	79 %	13%	1,296			

(2000, 2014; % and m tCO2)

P: primary; M: manufacturing; S: services

In 2014, 342m tCO_2 emitted in China were embodied in the final demand of the EU, of which 4% was emitted by the Chinese services sector.

C.8. Non-EU CO2 emissions by country embodied in EU final demand by sector (2000, 2014; %)



In 2014, 79% of the non-EU emissions embodied in EU final demand were emitted by the manufacturing sector (73% in 2000), the services sector accounted for 13% (17% in 2000) and the primary sector for 8% (10% in 2000).

C.9. Non-EU CO2 emissions by country embodied in EU final demand by industry

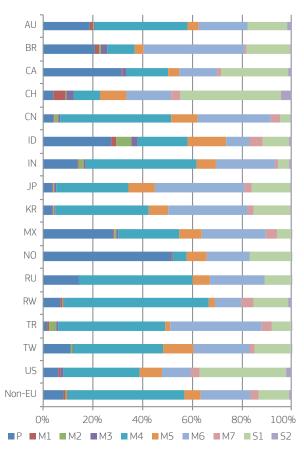
	P	M1	M2	M3	M4	M5	M6	M7	S 1	S2	Total
AU	19%	1%	0%	0%	37%	4%	20%	0%	16%	2%	7
BR	21%	2%	0%	3%	11%	4%	40%	1%	17%	1%	15
CA	31%	0%	0%	2%	17%	5%	15%	1%	27%	2%	17
СН	4%	5%	0%	3%	11%	11%	18%	4%	41%	4%	4
CN	4%	1%	1%	1%	45%	11%	30%	4%	4%	1%	342
ID	28%	2%	6%	2%	20%	15%	9 %	5%	11%	1%	11
IN	14%	0%	2%	1%	44%	8%	24%	1%	4%	1%	58
JP	4%	0%	0%	1%	29%	11%	36%	3%	16%	0%	29
KR	4%	0%	1%	0%	38%	8%	32%	3%	15%	1%	27
MX	28%	0%	0%	1%	25%	9 %	26%	4%	6%	0%	7
NO	52%	0%	0%	0%	5%	8%	17%	0%	17%	0%	12
RU	14%	0%	0%	0%	46%	7%	22%	0%	10%	0%	145
TR	2%	1%	3 %	1%	43%	2%	37%	4%	8%	0%	31
TW	11%	0%	1%	1%	36%	12%	22%	2%	15%	0%	17
US	6%	1%	0%	1%	30%	<i>9</i> %	11%	4%	35%	2%	90
RW	7%	1%	1%	0%	58%	3%	10%	5%	14%	2%	482
Non-EU	8%	1%	1%	1%	47%	7%	20%	3%	12%	1%	1,296

(2014; % and m tCO2)

P: primary; M1: food, beverages, tobacco; M2: textiles; M3: wood, paper, printing; M4: energy; M5: chemicals; M6: other non-metallic and basic metals; M7: machinery and transport equipment; S1: transport, trade and business services; S2: other services.

In 2014, 31m tCO₂ emitted in Turkey were embodied in EU final demand, of which 3% was emitted by the Turkish textile industry.

C.9. Non-EU CO2 emissions by country embodied in EU final demand by industry (2014; %)



In 2014, 47% of the non-EU emissions embodied in EU final demand were emitted by the energy industry (M4), 20% by other non-metallic and basic metals (M6), 12% by the transport, trade and business services industries (S1) and 8% by the primary industry (P).

C.10. Non-EU CO2 emissions embodied in EU final demand: inter-industry linkages (2000, 2014; m tCO2)

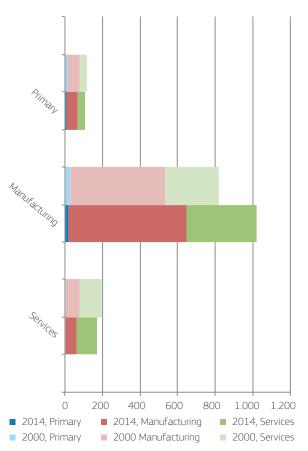
			Final producer (2000)											
		Р	М1	М2	М3	M4	M5	М6	М7	S1	S2	Total		
	Р	14.81	11.04	5.15	0.93	26.77	2.88	3.41	13.60	13.24	25.00	117		
	M1	0.16	3.23	0.30	0.01	0.06	0.07	0.04	0.32	0.34	1.09	6		
	М2	0.04	0.11	10.91	0.03	0.06	0.05	0.07	0.77	0.32	0.66	13		
s in	M3	0.15	0.74	0.58	0.72	0.28	0.29	0.24	2.73	1.77	2.83	10		
emissions	M4	21.53	28.11	36.91	4.30	73.39	15.68	18.26	103.52	70.32	112.94	485		
niss	M5	2.25	4.32	6.65	0.86	3.14	9.29	3.41	14.97	6.72	14.93	67		
	M6	3.30	7.46	6.64	0.96	8.62	3.03	19.91	82.81	18.49	46.96	198		
C02	M7	0.29	0.66	0.70	0.12	0.72	0.27	0.38	30.83	2.70	5.45	42		
	S1	3.98	<u>9</u> .97	8.67	1.17	13.33	3.60	3.74	29.00	64.02	38.26	176		
	52	0.25	0.66	0.63	0.08	0.74	0.26	0.26	2.06	3.01	10.03	18		
	Total	47	66	77	9	127	35	50	281	181	258	1,131		

		Final producer (2014)												
		Р	М1	М2	М3	M4	M5	М6	М7	<i>S</i> 1	S2	Total		
	Р	6.12	10.26	5.44	0.67	21.63	3.29	3.44	16.55	15.17	24.54	107		
	M1	0.18	3.53	0.48	0.02	0.12	0.15	0.09	0.70	0.53	1.42	7		
	М2	0.03	0.12	8.56	0.02	0.08	0.06	0.08	0.83	0.43	0.86	11		
s in	M3	0.10	0.57	0.47	0.61	0.28	0.22	0.20	2.24	1.50	2.21	8		
emissions	M4	13.20	34.09	46.85	3.99	82.07	21.41	24.30	144.59	91.22	142.41	604		
niss	M5	2.00	5.27	8.10	0.81	4.46	9.61	4.03	20.67	10.08	20.44	85		
	M6	2.71	9.56	8.13	1.06	11.27	4.14	28.15	99.34	28.02	64.65	257		
C 0 2	M7	0.22	0.69	0.66	0.11	0.84	0.33	0.48	31.88	3.34	6.74	45		
	S1	2.28	9.23	6.34	0.73	11.00	3.81	2.92	23.83	60.13	36.48	157		
	52	0.15	0.54	0.47	0.05	0.62	0.25	0.22	1.86	2.58	6.80	14		
	Total	27	74	86	8	132	43	64	342	213	307	1,296		

P: primary; M1: food, beverages, tobacco; M2: textiles; M3: wood, paper, printing; M4: energy; M5: chemicals; M6: other non-metallic and basic metals; M7: machinery and transport equipment; S1: transport, trade and business services; S2: other services.

In 2014, 10.26m tCO₂ emitted by the non-EU primary industry (P) were embodied in the EU final demand of products of the EU food, beverages and tobacco industries (M1).

C.10. Non-EU CO2 emissions embodied in EU final demand: inter-industry linkages (2000, 2014; m tCO2)



In 2014, 1,017m tCO₂ emitted by the non-EU manufacturing sector were embodied in the final demand of the EU, of which 626m tCO₂ were embodied in the EU final demand of products of the manufacturing sector and 374m tCO₂ were embodied in EU final demand of services. In 2014, 171m tCO₂ emitted by the non-EU services sector were embodied in the final demand of the EU, of which 106m tCO₂ were embodied in the EU final demand of products of the manufacturing sectors and 62m tCO₂ were embodied in EU final demand of products of the manufacturing sector.

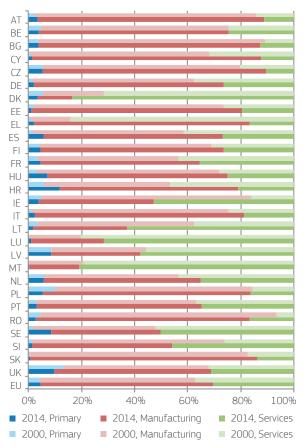
C.11. EU CO2 emissions by Member State embodied in non-EU final demand by sector (2000, 2014; % and m tCO2)

2000 2014 Total Total ΑT 2% 84% 14% 4% 85% 11% 11 12 24 ΒE 5% 71% 25% 23 4% 71% 25% ΒG 3% 86% 11% 4 4% 83% 13% 9 1 СҮ 1% 67% 32% 1 1% 86% 12% CZ 5% 74% 20% 19 6% 84% 10% 15 DE 1% 61% 38% 167 2% 72% 26% 156 DK 6% 23% 72% 26 3% 13% 83% 36 EE 2% 71% 26% 2 1% 79% 20% 4 EL 1% 15% 84% 27 2% 81% 17% 11 ES 2% 57% 42% 38 6% 67% 27% 48 FΙ 4% 65% 31% 5% 69% 27% 13 14 FR 3% 53% 43% 59 5% 60% 36% 54 HR 47% 12% 67% 21% 6% 48% 5 4 HU 68% 7 3% 69% 28% 8 7% 25% ΙE 7 9 5% 78% 16% 4% 43% 53% ΙT 52 1% 74% 24% 50 2% 79% 19% 7 LΤ 4% 59% 38% 1 2% 35% 63% 4 3 LU 0% 20% 80% 1% 27% 72% LV 9% 36% 56% 1 9% 34% 58% 2 MT 0% 21% 79% 0 0% 19% 81% 1 NL 6% 51% 43% 34 6% 59% 35% 46 ΡL 27 10% 74% 16% 5% 78% 16% 38 ΡT 3% 60% 37% 5 3% 62% 35% 9 RO 5% 89% 6% 16 3% 80% 17% 11 SE 2% 46% 52% 17 9% 41% 50% 15 SI 2% 72% 26% 1 2% 52% 46% 3 SK 0% 82% 17% 4 1% 85% 14% 7 UK 14% 54% 32% 85 10% 59% 31% 80 EU 4% 58% 37% 657 5% 65% 31% 678

P: primary; M: manufacturing; S: services

In 2014, 54m tCO₂ emitted in France were embodied in the final demand of non-EU countries, of which 36% was emitted by the services sector.

C.11. EU CO2 emissions by Member State embodied in non-EU final demand by sector (2000, 2014; %)



In 2014, 65% of EU CO₂ emissions embodied in non-EU final demand were emitted by the manufacturing sector (up from 58% in 2000), 31% by the services sector (down from 37% in 2000) and 5% by primary sector (up from, 4% in 2000). In 2014, the manufacturing sector accounted for more than 50% of the EU CO₂ emissions embodied in non-EU final demand in most Member States, except in Denmark, Ireland, Lithuania, Luxembourg, Latvia, Malta and Sweden.

C.12. EU CO2 emissions by Member State embodied in non-EU final demand by

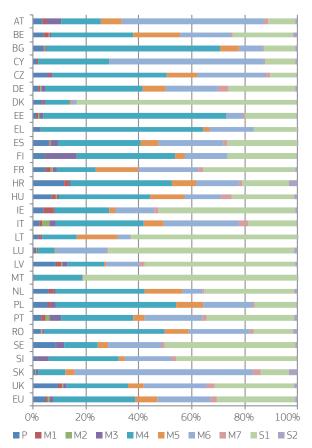
industry (2014; % and m tCO2)

	P	M1	M2	M3	M4	M5	M6	M7	S1	S 2	Total
AT	3.7%	1.4%	0.2%	5.5%	14.8%	7.8%	54.0%	1.2%	10.3%	1.1%	12
BE	3.9%	2.0%	0.3%	0.8%	31.0%	17.6%	19.0%	0.8%	22.8%	1.8%	24
BG	3.9%	0.6%	0.1%	0.7%	65.2%	7.1%	9.1%	0.4%	12.1%	0.8%	9
СҮ	1.3%	0.4%	0.1%	0.1%	26.9%	0.2%	58.5%	0.2%	11.6%	0.8%	1
CZ	5.5%	0.7%	0.2%	1.1%	42.9%	11.3%	26.2%	1.5%	9.9%	0.5%	15
DE	2.1%	0.7%	0.3%	1.7%	36.7%	8.6%	19.9%	3.7%	25.5%	0.8%	156
DK	3.5%	1.0%	0.0%	0.1%	9.3%	0.6%	2.0%	0.2%	82.9%	0.4%	36
EE	1.0%	0.9%	0.5%	1.3%	69.1%	0.2%	6.3%	0.9%	19.0%	0.7%	4
EL	2.2%	0.2%	0.0%	0.2%	61.6%	2.4%	16.5%	0.0%	16.6%	0.3%	11
ES	5.9%	0.4%	0.5%	2.7%	31.3%	6.7%	24.3%	1.4%	26.5%	0.3%	48
FI	4.7%	0.3%	0.1%	11.7%	37.0%	3.6%	15.9%	0.1%	26.1%	0.5%	13
FR	4.8%	2.1%	0.7%	1.4%	14.7%	16.4%	22.3%	2.1%	34.7%	0.9%	54
HR	11.9%	1.6%	0.1%	0.5%	38.6%	8.9%	16.0%	1.3%	18.0%	3.1%	4
HU	7.2%	1.5%	0.3%	0.8%	34.4%	13.0%	13.8%	4.0%	23.8%	1.2%	7
ΙE	4.0%	4.0%	0.0%	0.2%	20.5%	2.2%	14.7%	1.5%	51.9%	1.0%	9
IT	2.5%	1.3%	2.5%	2.5%	33.2%	7.5%	28.2%	3.6%	18.4%	0.5%	52
LT	1.9%	0.8%	0.3%	0.6%	13.0%	15.7%	4.7%	0.3%	62.7%	0.2%	7
LU	1.0%	0.1%	0.4%	0.3%	6.4%	0.3%	19.6%	0.3%	70.2%	1.3%	3
LV	8.6%	2.1%	0.4%	1.9%	13.6%	0.8%	12.8%	1.9%	56.7%	1.1%	2
MT	0.3%	0.1%	0.0%	0.1%	17.9%	0.1%	0.2%	0.4%	80.8%	0.2%	1
NL	5.7%	2.1%	0.1%	0.5%	33.7%	14.3%	7.5%	0.9%	33.9%	1.3%	46
PL	5.4%	1.2%	0.2%	1.9%	45.6%	10.3%	18.2%	0.9%	16.0%	0.4%	38
PT	3.3%	1. 3 %	1.6%	4.5%	27.1%	4.2%	21.9%	1.3%	33.3%	1.4%	9
RO	2.9%	0.4%	0.1%	0.9%	45.3%	9.0%	22.9%	1.8%	14.9%	1.7%	11
SE	8.5%	0.6%	0.1%	2.5%	12.7%	3.9%	20.1%	1.3%	49.3%	0.9%	15
SI	1.5%	0.3%	0.3%	3.7%	26.5%	2.4%	17.7%	1.5%	45.6%	0.4%	3
SK	0.8%	0.2%	0.3%	0.6%	10.4%	3.6%	66.9%	3.3%	10.5%	3.4%	7
UK	9.6%	1.4%	0.6%	1.0%	23.4%	5.7%	23.7%	3.4%	29.9%	1.3%	80
EU	4.6%	1.2%	0.5%	1.7%	30.6%	8.5%	20.2%	2.2%	29.7%	0.9%	678

P: primary; M1: food, beverages, tobacco; M2: textiles; M3: wood, paper, printing; M4: energy; M5: chemicals; M6: other non-metallic and basic metals; M7: machinery and transport equipment; S1: transport, trade and business services; S2: other services.

In 2014, 9m tCO2 emitted in Portugal were embodied in the final demand of non-EU countries, of which 1.3% was emitted by the food, beverages and tobacco industries (M1).

C.12. EU CO2 emissions by Member State embodied in non-EU final demand by industry (2014; %)



In 2014, 31% of the EU CO_2 emissions embodied in non-EU final demand were emitted by the energy industry (M4), 30% by the transport, trade and business services industries (S1), 20% by the other non-metallic and basic metals industries (M6), 8.5% by the chemical industry (M5) and 4.6% by the primary industry (P).

C.13. EU CO2 emissions embodied in non-EU final demand: inter-industry linkages (2000, 2014; m tCO2)

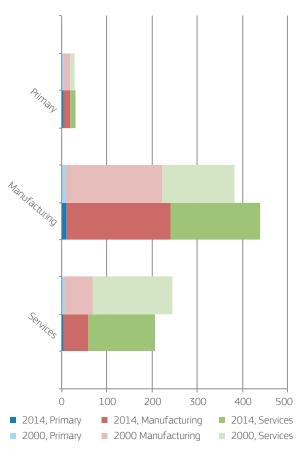
					Fina	al pro	duce	r (20	00)			
			М1	М2	М3	M4	M5	M6	М7	51	52	Total
	Р	5	4	1	0	3	1	1	4	3	7	29
	M1	0.15	4.56	0.12	0.01	0.04	0.10	0.03	0.34	0.31	0.74	6
	М2	0.04	0.08	3.90	0.02	0.04	0.04	0.04	0.50	0.30	0.71	6
E.	M3	0.17	0.92	0.39	0.64	0.16	0.30	0.19	2.16	1.98	3.08	10
emissions	M4	4.30	10.42	7.38	1.20	13.56	5.60	4.68	38.58	28.46	44.25	158
niss	M5	1.66	2.98	3.05	0.35	1.05	8.26	1.59	9.01	4.93	12.97	46
	M6	1.92	4.61	2.34	0.41	2.72	1.96	11.26	58.14	12.77	45.84	142
C02	М7	0.14	0.24	0.15	0.03	0.19	0.10	0.11	10.83	1.16	1.92	15
	S1	5.44	10.03	6.34	1.24	7.14	3.96	4.17	29.70	118.57	52.82	239
	S2	0.10	0.22	0.15	0.02	0.13	0.12	0.08	0.98	1.00	2.30	5
	Total	19	38	25	4	28	21	23	154	173	172	657

					Fina	al pro	duce	r (20	14)			
			М1	М2	М3	M4	M5	М6	М7	S1	52	Total
	Р	3.78	6.89	0.80	0.14	2.45	0.80	0.68	3.60	3.43	8.36	31
	M1	0.20	5.23	0.12	0.01	0.07	0.16	0.05	0.42	0.49	1.06	8
	М2	0.02	0.04	2.48	0.01	0.02	0.02	0.02	0.26	0.16	0.37	3
s I	M3	0.19	1.19	0.36	0.85	0.21	0.41	0.21	2.18	2.28	3.88	12
emissions	M4	5.13	13.41	6.30	1.36	20.57	8.67	5.72	49.93	36.03	60.32	207
niss	M5	2.16	3.56	2.55	0.41	1.64	12.26	1.89	10.10	6.13	17.08	58
	M6	1.82	4.36	1.65	0.34	2.69	2.21	8.43	47.67	12.41	55.56	137
C02	М7	0.14	0.24	0.11	0.02	0.18	0.11	0.11	10.52	1.17	2.30	15
	S1	4.16	9.59	4.46	0.75	5.35	3.73	3.00	26.88	87.50	55.78	201
	S2	0.11	0.28	0.13	0.02	0.17	0.16	0.10	1.13	1.35	2.62	6
	Total	18	45	19	4	33	29	20	153	151	207	678

 P: primary; M1: food, beverages, tobacco; M2: textiles; M3: wood, paper, printing; M4: energy; M5: chemicals; M6: other non-metallic and basic metals; M7: machinery and transport equipment; S1: transport, trade and business services; S2: other services.

In 2014, 3.73m tCO₂ emitted by the EU transport, trade and business services industries (S1) were embodied in the non-EU final demand of products of the chemical industry (M5).

C.13. EU CO2 emissions embodied in non-EU final demand: inter-industry linkages (2000, 2014; m tCO2)



In 2014, 440m tCO₂ emitted by the manufacturing sector across the EU were embodied in non-EU final demand, of which 231m tCO₂ were embodied in the non-EU final demand of products of the manufacturing sector and 199m tCO₂ in the non-EU final demand of services. In 2014, 207m tCO₂ emitted by the services sector across the EU were embodied in non-EU final demand, of which 147m tCO₂ were embodied in the non-EU final demand of services and 56m tCO₂ in the non-EU final demand of products of the manufacturing sector.

C.14. Non-EU CO2 emissions by country embodied in non-EU final demand by

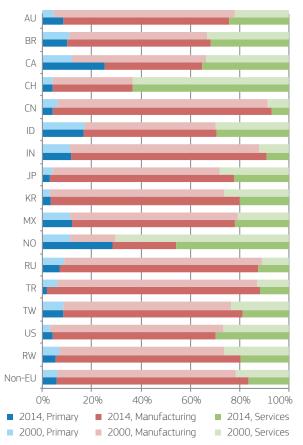
sector (2000, 2014; % and m tCO2)

		20	00			20)14	
	Р	М		Total	Р	М		Total
AU	4%	74%	22%	331	8%	67%	24%	358
BR	11%	56%	33%	302	10%	58%	32%	479
CA	12%	54%	34%	417	25%	39%	35%	450
СН	4%	32%	64%	20	4%	33%	63%	20
CN	6%	85%	<i>9</i> %	3,256	4%	89%	7%	9,604
ID	17%	53%	30%	269	17%	54%	29%	459
IN	11%	77%	12%	878	12%	79%	9 %	1,981
JP	4%	68%	28%	1,102	3%	75%	22%	1,093
KR	3%	71%	26%	474	3%	77%	20%	591
MΧ	11%	68%	21%	339	12%	66%	22%	392
NO	11%	18%	70%	40	28%	26%	46%	34
RU	9%	80%	11%	1,117	7%	80%	13%	1,356
TR	6%	81%	13%	157	2%	86%	12%	239
ΤW	9%	68%	23%	242	<i>9</i> %	72%	19%	277
US	3%	70%	27%	4,936	4%	66%	30%	4,253
RW	7%	67%	26%	3,579	5%	75%	20%	6,495
Non-EU	6%	72%	22%	17,460	6%	77%	17%	28,081

P: primary; M: manufacturing; S: services

In 2014, 1,981m tCO $_2$ emitted in India were embodied in the final demand of non-EU countries, of which 9% was emitted by the services sector.

C.14. Non-EU CO2 emissions by country embodied in non-EU final demand by sector (2000, 2014; %)



In 2014, 77% of non-EU CO_2 emissions embodied in non-EU final demand were emitted by the manufacturing sector (up from 72% in 2000), 17% by the services sector (down from 22% in 2000) and 6% by the primary sector (same as in 2000).

C.15. Non-EU CO2 emissions by country embodied in non-EU final demand by

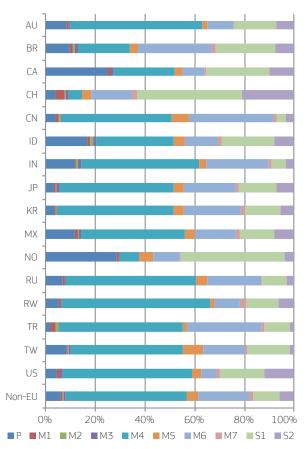
industry (2014; % and m tCO2)

	Р	M1	M2	M3	M4	M5	M6	M7	S1	S2	Total
AU	8.4%	1.0%	0.1%	0.4%	52.9%	2.2%	10.6%	0.2%	17.3%	6.9%	358
BR	9.9%	1.3%	0.7%	1.1%	21.0%	3.2%	29.6%	1.2%	24.3%	7.6%	479
CA	25.1%	0.9%	0.1%	1.5%	24.3%	3.2%	8.5%	0.9%	25.7%	9.8%	450
СН	4.1%	3.6%	0.3%	1.5%	5.1%	3.6%	16.5%	2.0%	42.3%	20.9%	20
CN	4.2%	1.2%	0.6%	0.7%	44.1%	6.8%	34.0%	1.5%	3.6%	3.5%	9,604
ID	16.7%	1.1%	1.3%	1.4%	31.2%	4.3%	13.1%	1.6%	21.2%	8.1%	459
IN	11.6%	0.6%	0.6%	1.2%	47.7%	3.1%	24.9%	1.0%	5.8%	3.6%	1,981
JP	3.1%	1.0%	0.3%	1.1%	46.2%	4.1%	20.7%	1.1%	15.1%	7.2%	1,093
KR	3.5%	0.4%	0.3%	0.4%	46.8%	4.1%	23.1%	1.4%	14.6%	5.3%	591
ΜX	11.8%	1.0%	0.6%	0.8%	41.6%	4.2%	16.2%	1.6%	14.0%	7.9%	392
NO	28.5%	1.1%	0.0%	0.3%	7.8%	5.8%	10.6%	0.3%	41.7%	4.0%	34
RU	7.1%	0.5%	0.1%	0.3%	52.5%	4.8%	21.3%	0.7%	9.8%	3.0%	1,356
TR	2.0%	2.1%	1.1%	0.6%	49.4%	1.7%	29.9%	1.2%	10.1%	1.9%	239
TW	8.7%	0.3%	0.4%	0.7%	45.0%	8.4%	16.5%	0.9%	17.0%	1.9%	277
US	4.3%	1.4%	0.1%	0.9%	52.4%	3.6%	6.1%	1.3%	17.8%	12.1%	4,253
RW	5.3%	0.6%	0.2%	0.2%	59.8%	1.6%	10.3%	2.4%	13.2%	6.4%	6,495
Non-EU	5.9%	1.0%	0.4%	0.7%	48.9%	4.3%	20.6%	1.6%	10.7%	6.0%	28,081

P: primary; M1: food, beverages, tobacco; M2: textiles; M3: wood, paper, printing; M4: energy; M5: chemicals; M6: other non-metallic and basic metals; M7: machinery and transport equipment; S1: transport, trade and business services; S2: other services.

In 2014, 392m tCO₂ emitted in Mexico were embodied in the final demand of non-EU countries, of which 1% was emitted by the food, beverages, tobacco industry (M1).

C.15. Non-EU CO2 emissions by country embodied in non-EU final demand by industry (2014; %)



In 2014, 50% of the non-EU CO_2 emissions embodied in non-EU final demand were emitted by the energy industry (M4), 21% by the other non-metallic and basic metals industries (M6), 11% by the transport, trade and business services industries (S1), 6% by other services (S2) and 5.9% by the primary industry (P).

C.16. Non-EU CO2 emissions embodied in non-EU final demand: inter-industry linkages (2000, 2014; m tCO2)

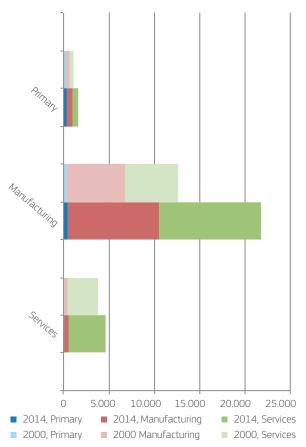
					Fi	nal p	roduc	er (2	000)			
			М1	М2	М3	M4	M5	М6	М7	51	52	Total
	Р	301	147	29	5	117	18	21	72	84	279	1,072
	М1	8	153	2	0	1	1	0	2	5	31	203
	M2	1	1	85	0	1	0	1	7	4	15	115
s ir	M3	3	16	5	28	2	3	3	24	34	82	199
CO2 emissions	M4	264	349	230	40	2,517	137	172	769	1,007	2,757	8,243
niss	M5	46	42	50	5	15	172	26	103	55	231	745
2 er	M6	46	83	39	6	48	22	341	643	171	1,323	2,722
Ö	M7	4	5	4	1	5	2	3	236	24	70	353
	51	45	97	44	9	57	25	29	178	1,369	589	2,441
	52	3	7	4	1	5	2	2	14	47	1,280	1,366
	Total	721	900	492	95	2,766	382	598	2,049	2,800	6,657	17,460

					Fi	nal p	roduc	:er (2	2014)			
		Р	М1	М2	М3	M4	M5	М6	M7	S1	52	Total
	Р	337	189	40	7	182	27	41	157	137	545	1,662
	М1	10	186	4	0	1	2	1	8	8	57	275
	М2	1	1	73	0	0	0	1	8	4	20	109
s I	M3	2	14	4	28	2	3	2	24	26	81	187
emissions	M4	365	547	337	57	3,824	224	304	1,582	1,421	5,073	13,732
niss	M5	54	66	63	7	22	203	35	199	87	476	1,213
2 er	M6	55	120	54	9	65	34	476	1,155	281	3,549	5,798
C02	М7	4	6	5	1	5	2	5	263	31	113	435
	51	48	125	41	9	61	29	30	229	1,608	815	2,994
	52	4	8	4	1	5	2	2	21	55	1,573	1,674
	Total	879	1,263	624	120	4,167	525	896	3,647	3,657	12,303	28,081

P: primary; M1: food, beverages, tobacco; M2: textiles; M3: wood, paper, printing; M4: energy; M5: chemicals; M6: other non-metallic and basic metals; M7: machinery and transport equipment; S1: transport, trade and business services; S2: other services.

In 2014, 29m tCO₂ emitted in the non-EU transport, trade and business services industries (S1) were embodied in the non-EU final demand of products of the chemical industry (M5).





In 2014, 21,749m tCO₂ emitted by the manufacturing sector in non-EU countries were embodied in non-EU final demand, of which 11,227m tCO₂ were embodied in the non-EU final demand of services and 10,032m tCO₂ in the non-EU final demand of products of the manufacturing sector. In 2014, 4,668m tCO₂ emitted by the services sector in non-EU countries were embodied in non-EU final demand, of which 4,051m tCO₂ were embodied in the non-EU final demand of services and 567m tCO₂ in the non-EU final demand of products of the manufacturing sector.

D. By final destination

81

D.1. EU CO2 emissions by Member State embodied in final demand by destination

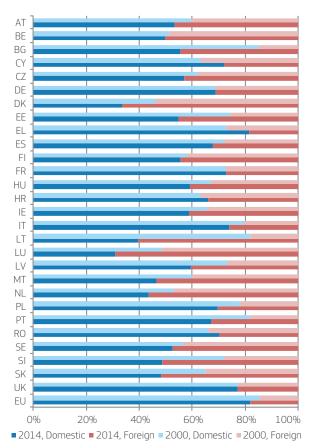
(2000, 2014; % and m tCO2)

	2000				2014	
	Domestic	Foreign	Total	Domestic	Foreign	Total
AT	60%	40%	73	53%	47%	57
BE	51%	49%	132	50%	50%	98
BG	85%	15%	50	55%	45%	45
СҮ	63%	37%	8	72%	28%	7
CZ	62%	38%	134	57%	43%	96
DE	69%	31%	1,010	69%	31%	855
DK	46%	54%	77	33%	67%	71
EE	74%	26%	15	55%	45%	20
EL	73%	27%	132	81%	19%	79
ES	72%	28%	312	68%	32%	270
FI	58%	42%	68	56%	44%	51
FR	72%	28%	437	73%	27%	346
HR	63%	37%	20	66%	34%	18
HU	67%	33%	59	59%	41%	48
IE	66%	34%	44	59%	41%	44
IT	79%	21%	484	74%	26%	357
LT	82%	18%	12	40%	60%	18
LU	49%	51%	12	31%	69%	8
LV	73%	27%	8	59%	41%	9
MT	60%	40%	3	46%	54%	4
NL	53%	47%	191	44%	56%	179
PL	78%	22%	326	69%	31%	316
PT	82%	18%	68	67%	33%	49
RO	66%	34%	98	70%	30%	80
SE	56%	44%	72	53%	47%	51
SI	72%	28%	16	49%	51%	14
SK	65%	35%	42	48%	52%	34
UK	77%	23%	616	77%	23%	488
EU	85%	15%	4,516	82%	18%	3,711

Domestic CO₂ emissions including those emitted directly by households

In 2014, around 34m tCO₂ were emitted in Slovakia, of which 52% was embodied in foreign final demand. The rest were embodied in Slovakian final demand.

D.1. EU CO2 emissions by Member State embodied in final demand by destination (2000, 2014; %)



In 2014, 82% of the total CO₂ emissions of the EU were linked to the final demand of EU Member States (85% in 2000), while 18% was embodied in the final demand of non-EU countries (15% in 2000). In Belgium, Denmark, Lithuania, Luxembourg, Malta, the Netherlands, Slovenia and Slovakia at least 50% of the CO₂ emissions are embodied in the final demand of other countries.

E. Country factsheets

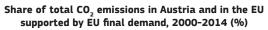
85

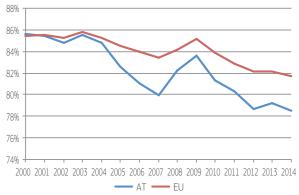
Austria



Production perspective									
		2000	2014	EU 2014	%EU				
Employment	1,000 jobs	3,756	4,268	226,884	2%				
Value added	bn EUR	190	293	12,488	2%				
CO2 emissions	m tCO2	73	57	3,711	2%				

Consumption perspective									
		2000	2014	EU 2014	%EU				
Employment	1,000 jobs	5,263	5,758	286,551	2%				
Value added	bn EUR	187	282	11,984	2%				
CO ₂ emissions	m tCO2	89	80	4,328	2%				





Austria

		J

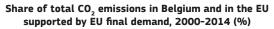
EU	CO2 emission	ns embodied in t	he final <mark>de</mark>	mand of	Austria
			2000	2014	EU 2014
	h	Primary	2%	2%	3%
C.1	by sector of final demand	Manufacturing	43%	44%	46%
	inde dernand	Services	55%	54%	51%
	CO2 emission	s in Austria emb	odied in EU	final de	mand
			2000	2014	EU 2014
		Primary	5%	6%	5%
C.3	by sector	Manufacturing	65%	71%	69%
		Services	30%	22%	25%
D.1	by final	Domestic	60%	53%	82%
D.1	destination*	Foreign	40%	47%	18%
Non-	EU CO2 emise	ions embodied in	the final o	demand	of Austria
			2000	2014	EU 2014
	by costar of	Primary	1%	1%	2%
C.6	by sector of final demand	Manufacturing	53%	58%	58%
	in de dernand	Services	46%	41%	40%
СО	2 emissions i	n Austria embod	ied in non-	EU final	demand
			2000	2014	EU 2014
		Primary	2%	4%	5%
C.11	by sector	Manufacturing	84%	85%	65%
		Services	14%	11%	31%

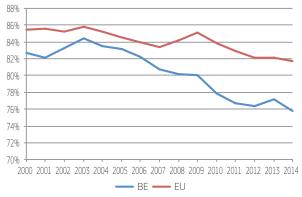
Belgium



Production perspective									
2000 2014									
1,000 jobs	4,109	4,550	226,884	2%					
bn EUR	230	358	12,488	3%					
m tCO2	132	98	3,711	3%					
	1,000 jobs bn EUR	2000 1,000 jobs 4,109 bn EUR 230	2000 2014 1,000 jobs 4,109 4,550 bn EUR 230 358	2000 2014 EU 2014 1,000 jobs 4,109 4,550 226,884 bn EUR 230 358 12,488					

Consumption perspective							
		2000	2014	EU 2014	%EU		
Employment	1,000 jobs	7,607	7,845	286,551	3%		
Value added	bn EUR	221	343	11,984	3%		
CO ₂ emissions	m tCO2	146	138	4,328	3%		





Belgium

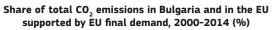
EU	CO2 emission	is embodied in th	ne final der	nand of	Belgium
			2000	2014	EU 2014
	h	Primary	2%	1%	3%
C.1	by sector of final demand	Manufacturing	48%	40%	46%
	india activation	Services	50%	58%	51%
C	02 emissions	in Belgium emb	odied in El	J final de	emand
			2000	2014	EU 2014
		Primary	3%	4%	5%
C.3	by sector	Manufacturing	69%	67%	69%
		Services	27%	29%	25%
D.1	by final	Domestic	51%	50%	82%
D.1	destination*	Foreign	49%	50%	18%
Non-	EU CO2 emiss	ions embodied in	the final d	emand o	of Belgium
			2000	2014	EU 2014
	hu an the set	Primary	2%	1%	2%
C.6	by sector of final demand	Manufacturing	58%	46%	58%
	initia dernand	Services	39%	53%	40%
CO	2 emissions ir	n Belgium embod	ied in non-	EU final	demand
			2000	2014	EU 2014
		Primary	5%	4%	5%
C.11	by sector	Manufacturing	71%	71%	65%
		Services	25%	25%	31%

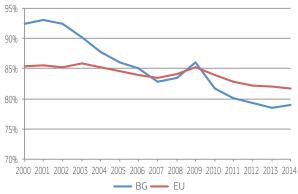
Bulgaria



Production perspective						
		2000	2014	EU 2014	%EU	
Employment	1,000 jobs	3,319	3,600	226,884	2%	
Value added	bn EUR	13	37	12,488	0%	
CO ₂ emissions	m tCO2	50	45	3,711	1%	

Consumption perspective							
		2000	2014	EU 2014	%EU		
Employment	1,000 jobs	3,428	2,833	286,551	1%		
Value added	bn EUR	16	40	11,984	0%		
CO ₂ emissions	m tCO2	52	37	4,328	1%		





Bulgaria

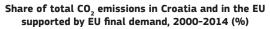
EU	CO2 emission	s embodied in th	ne final den	nand of	Bulgaria
			2000	2014	EU 2014
		Primary	6%	3%	3%
C.1	by sector of final demand	Manufacturing	62%	53%	46%
	milat demand	Services	32%	44%	51%
С	02 emissions	in Bulgaria emb	odied in El	J final d	emand
			2000	2014	EU 2014
		Primary	4%	3%	5%
C.3	by sector	Manufacturing	86%	83%	69%
		Services	10%	14%	25%
D.1	by final	Domestic	85%	55%	82%
D.1	destination*	Foreign	15%	45%	18%
Non-	EU CO2 emiss	ions embodied in	the final d	emand o	f Bulgaria
			2000	2014	EU 2014
	hu an the set	Primary	5%	3%	2%
C.6	by sector of final demand	Manufacturing	67%	57%	58%
	mat demand	Services	28%	40%	40%
COZ	emissions in	Bulgaria embod	lied in non-	-EU final	demand
			2000	2014	EU 2014
		Primary	3%	4%	5%
C.11	by sector	Manufacturing	86%	83%	65%
		Services	11%	13%	31%

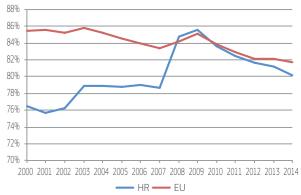
Croatia



Production perspective							
		2000	2014	EU 2014	%EU		
Employment	1,000 jobs	1,598	1,570	226,884	1%		
Value added	bn EUR	20	36	12,488	0%		
CO ₂ emissions	m tCO2	20	18	3,711	0%		

Consumption perspective							
		2000	2014	EU 2014	%EU		
Employment	1,000 jobs	1,527	1,495	286,551	1%		
Value added	bn EUR	20	36	11,984	0%		
CO ₂ emissions	m tCO2	21	20	4,328	0%		





Croatia



EU	CO2 emission	ns embodied in th	e final de	mand of	Croatia
			2000	2014	EU 2014
	h	Primary	10%	7%	3%
C.1	by sector of final demand	Manufacturing	49%	43%	46%
	in lat der hand	Services	41%	50%	51%
C	02 emission	s in Croatia embo	died in EU	final de	mand
			2000	2014	EU 2014
		Primary	11%	11%	5%
C.3	by sector	Manufacturing	69%	60%	69%
		Services	20%	29%	25%
D.1	by final	Domestic	63%	66%	82%
D.1	destination*	Foreign	37%	34%	18%
Non-	EU CO2 emiss	ions embodied in	the final o	demand (of Croatia
			2000	2014	EU 2014
	h	Primary	24%	7%	2%
C.6	by sector of final demand	Manufacturing	40%	53%	58%
	inde demand	Services	36%	40%	40%
CO	2 emissions i	n Croatia embodie	ed in non-	EU final	demand
			2000	2014	EU 2014
		Primary	6%	12%	5%
C.11	by sector	Manufacturing	48%	67%	65%
		Services	47%	21%	31%

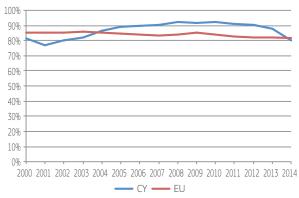
Cyprus



Production perspective							
		2000	2014	EU 2014	%EU		
Employment	1,000 jobs	316	358	226,884	0%		
Value added	bn EUR	10	16	12,488	0%		
CO ₂ emissions	m tCO2	8	7	3,711	0%		

Consumption perspective						
		2000	2014	EU 2014	%EU	
Employment	1,000 jobs	560	530	286,551	0%	
Value added	bn EUR	12	17	11,984	0%	
CO ₂ emissions	m tCO2	9	10	4,328	0%	

Share of total CO₂ emissions in Cyprus and in the EU supported by EU final demand, 2000-2014 (%)



Cyprus



EU	CO2 emissio	ns embodied in th	e final de	mand of	Cyprus		
			2000	2014	EU 2014		
		Primary	3%	2%	3%		
C.1	C.1 by sector of final demand	Manufacturing	35%	42%	46%		
	nnat dernand	Services	63%	56%	51%		
	CO2 emissions in Cyprus embodied in EU final demand						
			2000	2014	EU 2014		
		Primary	2%	2%	5%		
C.3	by sector	Manufacturing	78%	86%	69%		
		Services	20%	13%	25%		
D.1	by final	Domestic	63%	72%	82%		
D.1	destination*	Foreign	37%	28%	18%		
Non	EU CO2 emis	sions embodied in	the final	demand	of Cyprus		
			2000	2014	EU 2014		
	hu an the set	Primary	2%	2%	2%		
C.6	by sector of final demand	Manufacturing	54%	50%	58%		
	indi demana	Services	45%	48%	40%		
СО	2 emissions i	n Cyprus embodie	ed in non-l	EU final	demand		
			2000	2014	EU 2014		
		Primary	1%	1%	5%		
C.11	by sector	Manufacturing	67%	86%	65%		
		Services	32%	12%	31%		

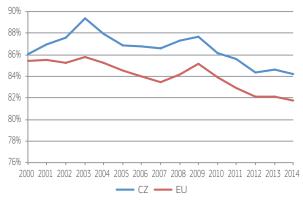
Czech Republic



Production perspective							
		2000	2014	EU 2014	%EU		
Employment	1,000 jobs	4,859	5,109	226,884	2%		
Value added	bn EUR	61	140	12,488	1%		
CO2 emissions	m tCO2	134	96	3,711	3%		

Consumption perspective								
		2000	2014	EU 2014	%EU			
Employment	1,000 jobs	4,468	4,636	286,551	2%			
Value added	bn EUR	62	129	11,984	1%			
CO ₂ emissions	m tCO2	108	86	4,328	2%			

Share of total CO₂ emissions in the Czech Republic and in the EU supported by EU final demand, 2000-2014 (%)



Czech Republic



			h . 6		- 6 Al
L L	O CO2 emiss	ions embodied in 1 Czech Repul		iemand	or the
			2000	2014	EU 2014
		Primary	2%	3%	3%
C.1	by sector of final demand	Manufacturing	58%	59%	46%
	nnat dernand	Services	40%	38%	51%
	CO2 emission	ns in the Czech Re		nbodied i	in EU
		final dema	1 [°] 1		
			2000	2014	EU 2014
		Primary	6%	7%	5%
C.3	by sector	Manufacturing	83%	82%	69%
		Services	10%	11%	25%
D.1	by final	Domestic	62%	57%	82%
D.1	destination*	Foreign	38%	43%	18%
	Non-EU CO2	emissions embodi		final der	nand
		of the Czech Re	i i		
			2000	2014	EU 2014
	h	Primary	2%	2%	2%
C.6	by sector of final demand	Manufacturing	55%	62%	58%
		Services	43%	36%	40%
C	02 emissions	in the Czech Repu		odied in	non-EU
		final dema	1 [°] 1		
			2000	2014	EU 2014
		Primary	5%	6%	5%
C.11	by sector	Manufacturing	74%	84%	65%
		Services	20%	10%	31%

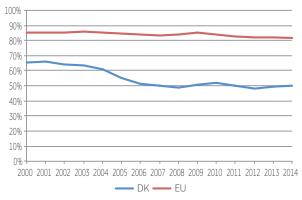
Denmark



Production perspective								
	2000	2014	EU 2014	%EU				
1,000 jobs	2,736	2,765	226,884	1%				
bn EUR	154	226	12,488	2%				
m tCO2	77	71	3,711	2%				
	1,000 jobs bn EUR	2000 1,000 jobs 2,736 bn EUR 154	2000 2014 1,000 jobs 2,736 2,765 bn EUR 154 226	2000 2014 EU 2014 1,000 jobs 2,736 2,765 226,884 bn EUR 154 226 12,488				

Consumption perspective							
		2000	2014	EU 2014	%EU		
Employment	1,000 jobs	4,285	4,033	286,551	1%		
Value added	bn EUR	139	207	11,984	2%		
CO ₂ emissions	m tCO2	65	58	4,328	1%		

Share of total CO₂ emissions in Denmark and in the EU supported by EU final demand, 2000-2014 (%)



Denmark

C I		

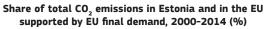
EU	CO2 emission	s embodied in th	e final den	nand of I	Denmark			
			2000	2014	EU 2014			
	h	Primary	2%	2%	3%			
C.1	.1 by sector of final demand	Manufacturing	50%	43%	46%			
	nnat dernand	Services	47%	55%	51%			
C	CO2 emissions in Denmark embodied in EU final demand							
			2000	2014	EU 2014			
		Primary	10%	8%	5%			
C.3	by sector	Manufacturing	66%	52%	69%			
		Services	24%	40%	25%			
D.1	by final	Domestic	46%	33%	82%			
D.1	destination*	Foreign	54%	67%	18%			
Non-	EU CO2 emiss	ions embodied in	the final de	emand of	f Denmark			
			2000	2014	EU 2014			
	hu an the set	Primary	1%	1%	2%			
C.6	by sector of final demand	Manufacturing	47%	47%	58%			
	initia dernand	Services	51%	52%	40%			
C02	emissions in	Denmark emboo	died in non	-EU final	demand			
			2000	2014	EU 2014			
		Primary	6%	3%	5%			
C.11	by sector	Manufacturing	23%	13%	65%			
		Services	72%	83%	31%			

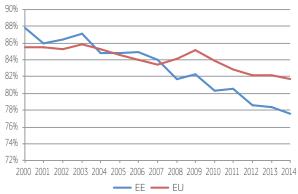
Estonia



Production perspective								
		2000	2014	EU 2014	%EU			
Employment	1,000 jobs	589	619	226,884	0%			
Value added	bn EUR	5	18	12,488	0%			
CO ₂ emissions	m tCO2	15	20	3,711	1%			

Consumption perspective								
		2000	2014	EU 2014	%EU			
Employment	1,000 jobs	686	685	286,551	0%			
Value added	bn EUR	7	18	11,984	0%			
CO ₂ emissions	m tCO2	16	16	4,328	0%			





Estonia

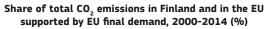
EU	CO2 emission	ns embodied in th	ne final de	mand of	Estonia
			2000	2014	EU 2014
	h	Primary	2%	2%	3%
C.1	by sector of	Manufacturing	54%	50%	46%
	india activation	Services	44%	48%	51%
0	02 emissions	s in Estonia embo	died in EU	final de	mand
			2000	2014	EU 2014
		Primary	2%	1%	5%
C.3	by sector	Manufacturing	87%	87%	69%
		Services	11%	12%	25%
D.1	by final	Domestic	74%	55%	82%
D.1	destination*	Foreign	26%	45%	18%
Non-	EU CO2 emiss	ions embodied in	the final o	lemand	of Estonia
			2000	2014	EU 2014
	hu an the set	Primary	3%	3%	2%
C.6	by sector of final demand	Manufacturing	55%	56%	58%
	initia dernand	Services	42%	41%	40%
CO	2 emissions i	n Estonia embodi	ed in non-	EU final	demand
			2000	2014	EU 2014
		Primary	2%	1%	5%
C.11	by sector	Manufacturing	71%	79%	65%
		Services	26%	20%	31%

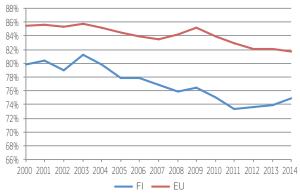
Finland



Production perspective						
		2000	2014	EU 2014	%EU	
Employment	1,000 jobs	2,298	2,499	226,884	1%	
Value added	bn EUR	119	177	12,488	1%	
CO ₂ emissions	m tCO2	68	51	3,711	1%	

Consumption perspective						
		2000	2014	EU 2014	%EU	
Employment	1,000 jobs	3,021	3,433	286,551	1%	
Value added	bn EUR	105	176	11,984	1%	
CO ₂ emissions	m tCO2	65	57	4,328	1%	







Finland

EU	CO2 emissio	ns embodied in th	e final de	mand of	Finland
			2000	2014	EU 2014
		Primary	2%	3%	3%
C.1	by sector of final demand	Manufacturing	30%	30%	46%
	nnat dernand	Services	68%	67%	51%
(CO2 emission	s in Finland embo	died in EU	I final de	mand
			2000	2014	EU 2014
		Primary	4%	5%	5%
C.3	by sector	Manufacturing	62%	68%	69%
		Services	34%	26%	25%
D.1	by final	Domestic	58%	56%	82%
D.1	destination*	Foreign	42%	44%	18%
Non-	EU CO2 emise	ions embodied in	the final (demand	of Finland
			2000	2014	EU 2014
		Primary	2%	2%	2%
C.6	by sector of final demand	Manufacturing	46%	44%	58%
	indi demana	Services	52%	55%	40%
CO	2 emissions i	n Finland embodie	ed in non-	EU final	demand
			2000	2014	EU 2014
		Primary	4%	5%	5%
C.11	by sector	Manufacturing	65%	69%	65%
		Services	31%	27%	31%

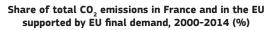


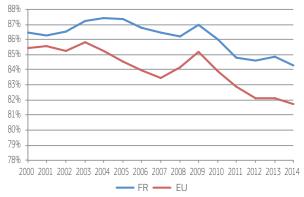
France



Production perspective						
		2000	2014	EU 2014	%EU	
Employment	1,000 jobs	25,672	27,295	226,884	12%	
Value added	bn EUR	1,333	1,910	12,488	15%	
CO ₂ emissions	m tCO2	437	346	3,711	9%	

Consumption perspective						
		2000	2014	EU 2014	%EU	
Employment	1,000 jobs	36,176	37,541	286,551	13%	
Value added	bn EUR	1,308	1,931	11,984	16%	
CO ₂ emissions	m tCO2	532	497	4,328	11%	







France

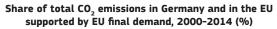
EU	CO2 emissio	ns embodied in t	he final de	mand of	France
			2000	2014	EU 2014
	h	Primary	3%	3%	3%
C.1	by sector of final demand	Manufacturing	39%	35%	46%
	inde demand	Services	58%	61%	51%
	CO2 emission	s in France embo	died in EU	final de	mand
			2000	2014	EU 2014
		Primary	6%	8%	5%
C.3	by sector	Manufacturing	51%	52%	69%
		Services	43%	40%	25%
D.1	by final	Domestic	72%	73%	82%
D.1	destination*	Foreign	28%	27%	18%
Non-	EU CO2 emis	sions embodied ii	n the final	demand	of France
			2000	2014	EU 2014
	by costor of	Primary	3%	2%	2%
C.6	by sector of final demand	Manufacturing	61%	53%	58%
	initia dernand	Services	36%	45%	40%
CO	2 emissions i	n France embodi	ed in non-l	EU final	demand
			2000	2014	EU 2014
		Primary	3%	5%	5%
C.11	by sector	Manufacturing	53%	60%	65%
		Services	43%	36%	31%

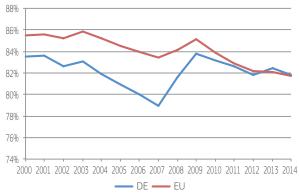


Germany



	Produ	ction pers	spective		
		2000	2014	EU 2014	%EU
Employment	1,000 jobs	39,917	42,706	226,884	19%
Value added	bn EUR	1,909	2,623	12,488	21%
CO ₂ emissions	m tCO2	1,010	855	3,711	23%
	Consun	nption pe	rspective		
		2000	2014	EU 2014	%EU
Employment	1,000 jobs	2000 56,409	2014 54,132	EU 2014 286,551	%EU 19%
Employment Value added	1,000 jobs bn EUR		-		







Germany

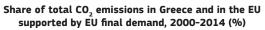
EU	CO2 emission	s embodied in th	e final den	nand of	Germany
			2000	2014	EU 2014
	h	Primary	2%	1%	3%
C.1	C.1 by sector of final demand	Manufacturing	54%	56%	46%
	initia derritaria	Services	43%	43%	51%
C	02 emissions	in Germany emb	odied in E	U final d	emand
			2000	2014	EU 2014
		Primary	2%	2%	5%
C.3	C.3 by sector	Manufacturing	69%	78%	69%
		Services	29%	20%	25%
D.1	by final	Domestic	69%	69%	82%
D.1	destination*	Foreign	31%	31%	18%
Non-	EU CO2 emiss	ions embodied in	the final d	emand of	f Germany
			2000	2014	EU 2014
	by sector of	Primary	6%	2%	2%
C.6	final demand	Manufacturing	65%	68%	58%
		Services	29%	30%	40%
C02	emissions in	Germany embod	lied in non	-EU final	demand
			2000	2014	EU 2014
		Primary	1%	2%	5%
C.11	by sector	Manufacturing	61%	72%	65%
		Services	38%	26%	31%

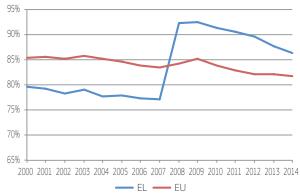
Greece



Production perspective								
		2000	2014	EU 2014	%EU			
Employment	1,000 jobs	4,308	3,963	226,884	2%			
Value added	bn EUR	128	157	12,488	1%			
CO ₂ emissions	m tCO2	132	79	3,711	2%			

Consumption perspective								
		2000	2014	EU 2014	%EU			
Employment	1,000 jobs	6,258	5,052	286,551	2%			
Value added	bn EUR	153	171	11,984	1%			
CO ₂ emissions	m tCO2	143	94	4,328	2%			







Greece

_			

EU	CO2 emissio	ns embodied in tl	he final de	mand of	Greece
			2000	2014	EU 2014
		Primary	4%	2%	3%
C.1	by sector of final demand	Manufacturing	54%	63%	46%
	nnat dernand	Services	42%	35%	51%
	CO2 emission	s in Greece embo	died in EU	final de	mand
			2000	2014	EU 2014
	C.3 by sector	Primary	4%	1%	5%
C.3		Manufacturing	78%	84%	69%
		Services	18%	14%	25%
D.1	by final	Domestic	73%	81%	82%
D.1	destination*	Foreign	27%	19%	18%
Non-	-EU CO2 emise	sions embodied in	the final	demand	of Greece
			2000	2014	EU 2014
	h	Primary	13%	7%	2%
C.6	by sector of final demand	Manufacturing	57%	66%	58%
	nnat dernand	Services	30%	27%	40%
СО	2 emissions i	n Greece embodi	ed in non-	EU final	demand
			2000	2014	EU 2014
		Primary	1%	2%	5%
C.11	by sector	Manufacturing	15%	81%	65%
		Services	84%	17%	31%

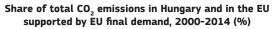


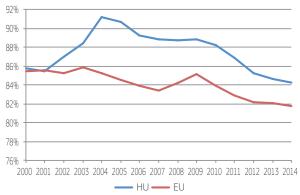
Hungary



Production perspective								
		2000	2014	EU 2014	%EU			
Employment	1,000 jobs	4,237	4,234	226,884	2%			
Value added	bn EUR	44	88	12,488	1%			
CO ₂ emissions	m tCO2	59	48	3,711	1%			

Consumption perspective								
		2000	2014	EU 2014	%EU			
Employment	1,000 jobs	4,016	3,660	286,551	1%			
Value added	bn EUR	47	82	11,984	1%			
CO ₂ emissions	m tCO2	63	49	4,328	1%			





Hungary

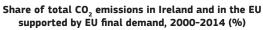
EU	CO2 emission	s embodied in th	ne final den	nand of	Hungary
			2000	2014	EU 2014
		Primary	5%	4%	3%
C.1	by sector of final demand	Manufacturing	50%	41%	46%
	initia dernand	Services	45%	54%	51%
C	02 emissions	in Hungary emb	odied in El	J final de	emand
			2000	2014	EU 2014
		Primary	6%	7%	5%
C.3	C.3 by sector	Manufacturing	75%	61%	69%
		Services	19%	31%	25%
D.1	by final	Domestic	67%	59%	82%
D.1	destination*	Foreign	33%	41%	18%
Non-	EU CO2 emiss	ions embodied in	the final d	emand o	f Hungary
			2000	2014	EU 2014
	by sector of	Primary	16%	6%	2%
C.6	final demand	Manufacturing	47%	53%	58%
		Services	38%	41%	40%
CO	emissions in	Hungary embod	lied in non-	EU final	demand
			2000	2014	EU 2014
		Primary	3%	7%	5%
C.11	by sector	Manufacturing	69%	68%	65%
		Services	28%	25%	31%

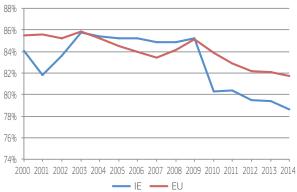
Ireland



Production perspective								
		2000	2014	EU 2014	%EU			
Employment	1,000 jobs	1,712	1,914	226,884	1%			
Value added	bn EUR	97	171	12,488	1%			
CO ₂ emissions	m tCO2	44	44	3,711	1%			

Consumption perspective								
		2000	2014	EU 2014	%EU			
Employment	1,000 jobs	2,536	3,383	286,551	1%			
Value added	bn EUR	81	135	11,984	1%			
CO ₂ emissions	m tCO2	50	53	4,328	1%			





Ireland

EU	CO2 emission	ns embodied in t	he final de	mand of	Ireland
			2000	2014	EU 2014
	h	Primary	4%	3%	3%
C.1	by sector of final demand	Manufacturing	41%	36%	46%
	initia dernand	Services	55%	62%	51%
(CO2 emission	s in Ireland embo	odied in EU	final de	mand
			2000	2014	EU 2014
		Primary	5%	4%	5%
C.3	C.3 by sector	Manufacturing	73%	57%	69%
		Services	22%	39%	25%
D.1	by final	Domestic	66%	59%	82%
D.1	destination*	Foreign	34%	41%	18%
Non-	EU CO2 emise	sions embodied in	n <mark>the final</mark> (demand	of Ireland
			2000	2014	EU 2014
		Primary	2%	2%	2%
C.6	by sector of final demand	Manufacturing	40%	31%	58%
	inde dernand	Services	58%	67%	40%
CO	2 emissions i	n Ireland embodi	ied in non-	EU final	demand
			2000	2014	EU 2014
		Primary	5%	4%	5%
C.11	by sector	Manufacturing	78%	43%	65%
		Services	16%	53%	31%

Value added

CO₂ emissions



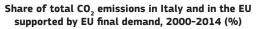
11,984

4,328

12%

10%

Production perspective						
		2000	2014	EU 2014	%EU	
Employment	1,000 jobs	23,021	24,368	226,884	11%	
Value added	bn EUR	1,111	1,449	12,488	12%	
CO ₂ emissions	m tCO2	484	357	3,711	10%	
Consumption perspective 2000 2014 EU 2014 %EU						
Employment	1,000 jobs	32,586	30,306	286,551	11%	



1,109

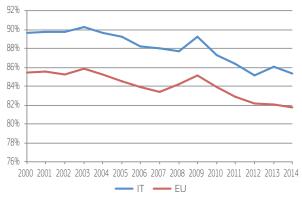
600

1,403

438

bn EUR

m tCO2



Italy	
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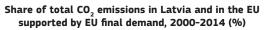
E	U CO2 emissi	ons embodied in t	he final d	emand o	of Italy
			2000	2014	EU 2014
h	h	Primary	3%	4%	3%
C.1	C.1 by sector of final demand	Manufacturing	53%	43%	46%
	ninat dernand	Services	45%	53%	51%
	CO2 emissio	ns in Italy embodi	ed in EU f	final den	nand
			2000	2014	EU 2014
		Primary	3%	5%	5%
C.3	C.3 by sector	Manufacturing	79%	69%	69%
		Services	18%	26%	25%
D.1	by final	Domestic	79%	74%	82%
D.1	destination*	Foreign	21%	26%	18%
Non	-EU CO2 emis	sions embodied in	the fina	l deman	d of Italy
			2000	2014	EU 2014
	by costar of	Primary	2%	2%	2%
C.6	by sector of final demand	Manufacturing	58%	57%	58%
	in lat der hand	Services	40%	41%	40%
C	02 emissions	in Italy embodied	in non-E	U final d	emand
			2000	2014	EU 2014
		Primary	1%	2%	5%
C.11	by sector	Manufacturing	74%	79%	65%
		Services	24%	19%	31%

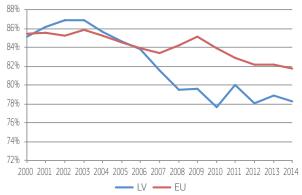
Latvia



Production perspective						
		2000	2014	EU 2014	%EU	
Employment	1,000 jobs	924	898	226,884	0%	
Value added	bn EUR	8	21	12,488	0%	
CO ₂ emissions	m tCO2	8	9	3,711	0%	

Consumption perspective						
		2000	2014	EU 2014	%EU	
Employment	1,000 jobs	1,029	927	286,551	0%	
Value added	bn EUR	9	21	11,984	0%	
CO ₂ emissions	m tCO2	12	12	4,328	0%	







Latvia

EU	EU CO2 emissions embodied in the final demand of Latvia						
			2000	2014	EU 2014		
		Primary	-5%	5%	3%		
C.1	by sector of final demand	Manufacturing	54%	42%	46%		
	milat demand	Services	51%	54%	51%		
	CO2 emission	s in Latvia emb	odied in EU	final de	mand		
			2000	2014	EU 2014		
		Primary	8%	8%	5%		
C.3	C.3 by sector	Manufacturing	58%	50%	69%		
		Services	34%	42%	25%		
D.1	by final	Domestic	73%	59%	82%		
D.1	destination*	Foreign	27%	41%	18%		
Non-	EU CO2 emise	sions embodied	in the final	demand	of Latvia		
			2000	2014	EU 2014		
	by costor of	Primary	3%	4%	2%		
C.6	by sector of final demand	Manufacturing	55%	51%	58%		
	initial derinaria	Services	42%	45%	40%		
CO	2 emissions i	in Latvia embod	ied in non-l	EU final	demand		
			2000	2014	EU 2014		
		Primary	9%	9%	5%		
C.11	by sector	Manufacturing	36%	34%	65%		
		Services	56%	58%	31%		

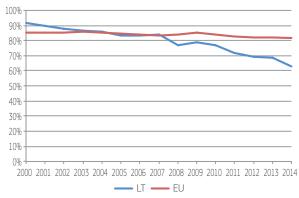
Lithuania



Production perspective						
2000 2014 EU 2014 %EU						
Employment	1,000 jobs	1,399	1,317	226,884	1%	
Value added	bn EUR	11	33	12,488	0%	
CO ₂ emissions	m tCO2	12	18	3,711	0%	

Consumption perspective						
		2000	2014	EU 2014	%EU	
Employment	1,000 jobs	1,554	1,399	286,551	0%	
Value added	bn EUR	13	32	11,984	0%	
CO ₂ emissions	m tCO2	24	19	4,328	0%	

Share of total CO₂ emissions in Lithuania and in the EU supported by EU final demand, 2000-2014 (%)



Lithuania

EU (CO2 emission	s embodied in the	e final dem	and of I	ithuania
			2000	2014	EU 2014
		Primary	5%	6%	3%
C.1	by sector of final demand	Manufacturing	65%	57%	46%
	milat demand	Services	31%	37%	51%
C	02 emissions	odied in E	U final d	emand	
			2000	2014	EU 2014
		Primary	4%	2%	5%
C.3	by sector	Manufacturing	73%	53%	69%
		Services	22%	45%	25%
D.1	by final	Domestic	82%	40%	82%
D.1	destination*	Foreign	18%	60%	18%
	Non-EU CO2	emissions embod		final der	nand
		of Lithuai			
			2000	2014	EU 2014
	by sector of	Primary	33%	14%	2%
C.6	final demand	Manufacturing	46%	58%	58%
	initial derinaria	Services	21%	28%	40%
C02	emissions in	Lithuania embod	lied in non	-EU fina	l demand
			2000	2014	EU 2014
		Primary	4%	2%	5%
C.11	by sector	Manufacturing	59%	35%	65%
		Services	38%	63%	31%

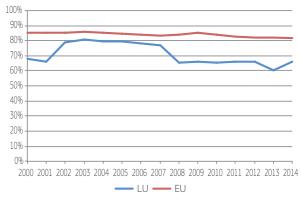
Luxembourg



Production perspective							
		2000	2014	EU 2014	%EU		
Employment	1,000 jobs	263	405	226,884	0%		
Value added	bn EUR	21	44	12,488	0%		
CO ₂ emissions	m tCO2	12	8	3,711	0%		

Consumption perspective							
		2000	2014	EU 2014	%EU		
Employment	1,000 jobs	578	701	286,551	0%		
Value added	bn EUR	17	33	11,984	0%		
CO ₂ emissions	m tCO2	11	10	4,328	0%		

Share of total CO₂ emissions in Luxembourg and in the EU supported by EU final demand, 2000-2014 (%)



Luxembourg

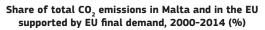


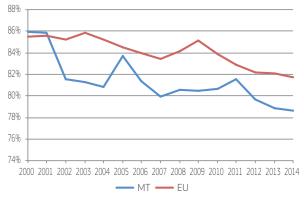
	EU CO2 em	nissions embodied of Luxembo		al dema	nd
			2000	2014	EU 2014
		Primary	2%	2%	3%
C.1	by sector of final demand	Manufacturing	52%	53%	46%
	inde demand	Services	46%	44%	51%
CO	2 emissions ir	n Luxembourg eml	odied in	EU final	demand
			2000	2014	EU 2014
		Primary	2%	1%	5%
C.3	by sector	Manufacturing	42%	37%	69%
		Services	57%	62%	25%
D.1	by final	Domestic	49%	31%	82%
D.1	destination*	Foreign	51%	69%	18%
	Non-EU CO2	emissions embodi of Luxembo		final der	nand
			2000	2014	EU 2014
		Primary	1%	1%	2%
C.6	by sector of final demand	Manufacturing	47%	60%	58%
	nnat dernand	Services	52%	39%	40%
	CO2 emissio	ons in Luxembourg		ed in non	-EU
		final dema			
			2000		EU 2014
		Primary	0%	1%	5%
C.11	by sector	Manufacturing	20%	27%	65%
		Services	80%	72%	31%



Production perspective							
		2000	2014	EU 2014	%EU		
Employment	1,000 jobs	151	194	226,884	0%		
Value added	bn EUR	4	7	12,488	0%		
CO ₂ emissions	m tCO2	3	4	3,711	0%		

Consumption perspective							
		2000	2014	EU 2014	%EU		
Employment	1,000 jobs	243	231	286,551	0%		
Value added	bn EUR	5	7	11,984	0%		
CO ₂ emissions	m tCO2	5	4	4,328	0%		









EL	J CO2 emissio	ns embodied in t	he final de	emand o	f Malta
			2000	2014	EU 2014
		Primary	2%	2%	3%
C.1	by sector of final demand	Manufacturing	55%	37%	46%
	milat demand	Services	44%	61%	51%
	CO2 emission	is in Malta embod	lied in EU	final dei	mand
			2000	2014	EU 2014
		Primary	1%	0%	5%
C.3	by sector	Manufacturing	47%	36%	69%
		Services	52%	63%	25%
D.1	by final	Domestic	60%	46%	82%
D.1	destination*	Foreign	40%	54%	18%
Non-	EU CO2 emis	sions embodied ir	the final	demand	l of Malta
			2000	2014	EU 2014
		Primary	2%	1%	2%
C.6	by sector of final demand	Manufacturing	68%	53%	58%
	nnat dernand	Services	31%	46%	40%
CC	2 emissions	in Malta embodie	d in non-E	U final o	lemand
			2000	2014	EU 2014
		Primary	0%	0%	5%
C.11	by sector	Manufacturing	21%	19%	65%
		Services	79%	81%	31%



Netherlands

CO₂ emissions



Production perspective							
		2000	2014	EU 2014	%EU		
Employment	1,000 jobs	8,207	8,727	226,884	4%		
Value added	bn EUR	402	597	12,488	5%		
CO ₂ emissions	m tCO2	191	179	3,711	5%		
Consumption perspective							
	ĺ	2000	2014	EU 2014	%EU		
Employment	1,000 jobs	13,463	13,317	286,551	5%		
Value added	bn FUR	373	510	11.984	4%		

Share of total $\rm CO_2$ emissions in the Netherlands and in the EU supported by EU final demand, 2000-2014 (%)

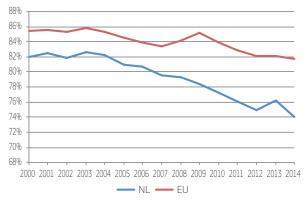
193

181

4,328

4%

m tCO2





Netherlands

	EU CO2 em	issions embodied of the Netherl		al dema	nd		
			2000	2014	EU 2014		
	by costar of	Primary	3%	2%	3%		
C.1	by sector of final demand	Manufacturing	49%	45%	46%		
	inter der ter ter te	Services	49%	53%	51%		
CO2 emissions in the Netherlands embodied in EU final dema							
			2000	2014	EU 2014		
		Primary	9%	9%	5%		
C.3	by sector	Manufacturing	68%	67%	69%		
		Services	23%	25%	25%		
D.1	by final	Domestic	53%	44%	82%		
D.1	destination*	Foreign	47%	56%	18%		
	Non-EU CO2	emissions embodie of the Netherl		final der	nand		
			2000	2014	EU 2014		
		Primary	4%	1%	2%		
C.6	by sector of final demand	Manufacturing	53%	57%	58%		
	initia dernand	Services	42%	42%	40%		
	CO2 emissions in the Netherlands embodied in non-EU final demand						
			2000	2014	EU 2014		
		Primary	6%	6%	5%		
C.11	by sector	Manufacturing	51%	59%	65%		
		Services	43%	35%	31%		



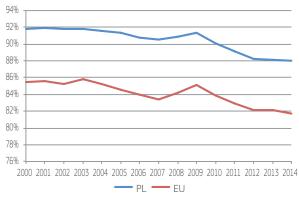
Poland



Production perspective								
		2000	2014	EU 2014	%EU			
Employment	1,000 jobs	14,777	15,572	226,884	7%			
Value added	bn EUR	165	365	12,488	3%			
CO ₂ emissions	m tCO2	326	316	3,711	9%			
Consumption perspective								

		2000	2014	EU 2014	%EU
Employment	1,000 jobs	14,602	14,582	286,551	5%
Value added	bn EUR	177	353	11,984	3%
CO ₂ emissions	m tCO2	315	293	4,328	7%

Share of total CO₂ emissions in Poland and in the EU supported by EU final demand, 2000-2014 (%)





Poland

EU	CO2 emissio	ns embodied in tl	he final de	mand of	Poland
			2000	2014	EU 2014
		Primary	7%	4%	30
C.1	C.1 by sector of final demand	Manufacturing	48%	49%	460
	inter dernand	Services	45%	47%	510
	CO2 emission	s in Poland embo	died in EU	final de	mand
			2000	2014	EU 2014
		Primary	9%	6%	50
C.3	C.3 by sector	Manufacturing	82%	78%	690
		Services	9%	16%	25
D.1	by final	Domestic	78%	69%	820
D.1	destination*	Foreign	22%	31%	18
Non	-EU CO2 emis	sions embodied ir	the final	demand	of Polan
			2000	2014	EU 201
	h	Primary	5%	3%	2
C.6	by sector of final demand	Manufacturing	48%	60%	58
	nnat dernand	Services	47%	37%	400
CO	2 emissions i	n Poland embodi	ed in non-l	EU final	demand
			2000	2014	EU 201
		Primary	10%	5%	50
C.11	by sector	Manufacturing	74%	78%	650
		Services	16%	16%	310



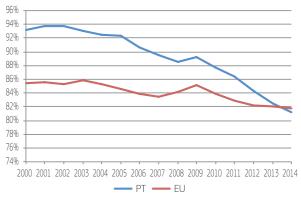
Portugal



Production perspective							
		2000	2014	EU 2014	%EU		
Employment	1,000 jobs	5,042	4,545	226,884	2%		
Value added	bn EUR	113	152	12,488	1%		
CO ₂ emissions	m tCO2	68	49	3,711	1%		

Consumption perspective								
		2000	2014	EU 2014	%EU			
Employment	1,000 jobs	6,361	4,995	286,551	2%			
Value added	bn EUR	134	159	11,984	1%			
CO ₂ emissions	m tCO2	85	58	4,328	1%			

Share of total CO₂ emissions in Portugal and in the EU supported by EU final demand, 2000-2014 (%)



Portugal



EU	CO2 emission	s embodied in the	e final der	nand of	Portugal
			2000	2014	EU 2014
	h	Primary	3%	5%	3%
C.1	by sector of final demand	Manufacturing	46%	49%	46%
	inde demand	Services	51%	47%	51%
C	02 emissions	in Portugal embo	died in E	U final d	emand
			2000	2014	EU 2014
		Primary	5%	6%	5%
C.3	C.3 by sector	Manufacturing	71%	69%	69%
		Services	24%	25%	25%
D.1	by final	Domestic	82%	67%	82%
D.1	destination*	Foreign	18%	33%	18%
Non-	EU CO2 emiss	ions embodied in t	the final d	emand o	f Portugal
			2000	2014	EU 2014
	h	Primary	3%	3%	2%
C.6	by sector of final demand	Manufacturing	59%	64%	58%
	nnai acmana	Services	38%	33%	40%
C02	emissions in	Portugal embodi	ed in non	-EU final	demand
			2000	2014	EU 2014
		Primary	3%	3%	5%
C.11	by sector	Manufacturing	60%	62%	65%
		Services	37%	35%	31%

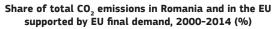


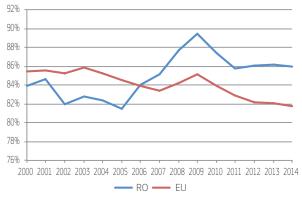
Romania



Production perspective							
		2000	2014	EU 2014	%EU		
Employment	1,000 jobs	10,707	8,804	226,884	4%		
Value added	bn EUR	37	133	12,488	1%		
CO ₂ emissions	m tCO2	98	80	3,711	2%		

Consumption perspective								
		2000	2014	EU 2014	%EU			
Employment	1,000 jobs	9,059	7,665	286,551	3%			
Value added	bn EUR	38	133	11,984	1%			
CO ₂ emissions	m tCO2	78	85	4,328	2%			







Romania

	_

EU	CO2 emission	s embodied in th	ne final den	nand of	Romania
			2000	2014	EU 2014
	h	Primary	7%	4%	3%
C.1	by sector of final demand	Manufacturing	55%	49%	46%
	in lat der la la	Services	38%	47%	51%
C	02 emissions	in Romania emb	odied in E	U final d	emand
			2000	2014	EU 2014
		Primary	6%	4%	5%
C.3	.3 by sector	Manufacturing	86%	78%	69%
		Services	8%	19%	25%
D.1	by final	Domestic	66%	70%	82%
D.1	destination*	Foreign	34%	30%	18%
Non-	EU CO2 emiss	ions embodied in	the final d	emand o	f Romania
			2000	2014	EU 2014
	by costar of	Primary	7%	3%	2%
C.6	by sector of final demand	Manufacturing	54%	58%	58%
	in lat der la la	Services	39%	38%	40%
C02	emissions in	Romania emboo	lied in non	-EU final	demand
			2000	2014	EU 2014
		Primary	5%	3%	5%
C.11	by sector	Manufacturing	89%	80%	65%
		Services	6%	17%	31%

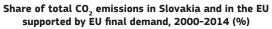


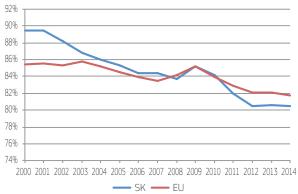
Slovakia



Production perspective							
		2000	2014	EU 2014	%EU		
Employment	1,000 jobs	2,013	2,223	226,884	1%		
Value added	bn EUR	20	69	12,488	1%		
CO ₂ emissions	m tCO2	42	34	3,711	1%		

Consumption perspective								
		2000	2014	EU 2014	%EU			
Employment	1,000 jobs	2,060	2,368	286,551	1%			
Value added	bn EUR	23	65	11,984	1%			
CO ₂ emissions	m tCO2	40	34	4,328	1%			





Slovakia



EU	CO2 emission	s embodied in th	ne final den	nand of	Slovakia
			2000	2014	EU 2014
	h	Primary	3%	3%	3%
C.1	by sector of final demand	Manufacturing	52%	53%	46%
	india activation	Services	45%	44%	51%
C	02 emissions	in Slovakia emb	odied in El	J final d	emand
			2000	2014	EU 2014
		Primary	1%	1%	5%
C.3	C.3 by sector	Manufacturing	76%	71%	69%
		Services	23%	28%	25%
D.1	by final	Domestic	65%	48%	82%
D.1	destination*	Foreign	35%	52%	18%
Non-	EU CO2 emiss	ions embodied in	the final d	emand o	f Slovakia
			2000	2014	EU 2014
	hu an the set	Primary	4%	3%	2%
C.6	by sector of final demand	Manufacturing	61%	73%	58%
	initia dernand	Services	35%	24%	40%
C02	emissions in	Slovakia emboo	lied in non-	-EU final	demand
			2000	2014	EU 2014
		Primary	0%	1%	5%
C.11	by sector	Manufacturing	82%	85%	65%
		Services	17%	14%	31%

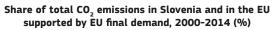


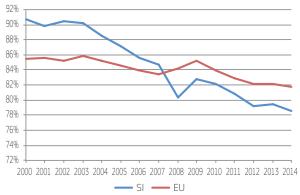
Slovenia



Production perspective							
	2000	2014	EU 2014	%EU			
1,000 jobs	906	940	226,884	0%			
bn EUR	19	32	12,488	0%			
m tCO2	16	14	3,711	0%			
	1,000 jobs bn EUR	2000 1,000 jobs 906 bn EUR 19	2000 2014 1,000 jobs 906 940 bn EUR 19 32	2000 2014 EU 2014 1,000 jobs 906 940 226,884 bn EUR 19 32 12,488			

Consumption perspective							
		2000	2014	EU 2014	%EU		
Employment	1,000 jobs	1,077	1,082	286,551	0%		
Value added	bn EUR	22	31	11,984	0%		
CO ₂ emissions	m tCO2	20	16	4,328	0%		





Slovenia

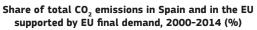


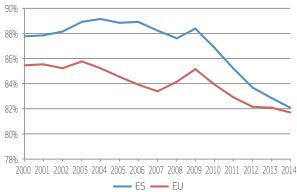
EU	CO2 emission	s embodied in th			
			2000	2014	EU 2014
	hu an the set	Primary	4%	4%	3%
C.1	by sector of final demand	Manufacturing	53%	47%	46%
	indi demana	Services	44%	50%	51%
C	02 emissions	in Slovenia emb	odied in El	J final d	emand
			2000	2014	EU 2014
		Primary	3%	3%	5%
C.3	C.3 by sector	Manufacturing	74%	62%	69%
		Services	23%	35%	25%
D 1	by final	Domestic	72%	49%	82%
D.1	destination*	Foreign	28%	51%	18%
Non-	EU CO2 emiss	ions embodied in	the final d	emand o	f Slovenia
			2000	2014	EU 2014
		Primary	10%	3%	2%
C.6	by sector of final demand	Manufacturing	59%	63%	58%
	nnai uernanu	Services	31%	35%	40%
C02	2 emissions in	Slovenia embodi	ied in non-	-EU final	demand
			2000	2014	EU 2014
		Primary	2%	2%	5%
C.11	by sector	Manufacturing	72%	52%	65%
		Services	26%	46%	31%





Production perspective							
		2000	2014	EU 2014	%EU		
Employment	1,000 jobs	16,691	17,965	226,884	8%		
Value added	bn EUR	586	948	12,488	8%		
CO ₂ emissions	m tCO2	312	270	3,711	7%		
	Consur	nption pe	rspective				
	Consul	· · · ·					
		2000	2014	EU 2014	%EU		
Employment	1,000 jobs	22,287	22,985	286,551	8%		
Value added	bn EUR	620	947	11,984	8%		
CO ₂ emissions	m tCO2	341	300	4.328	7%		







Spain



EU	J CO2 emissio	ons embodied in t	he final d	emand o	f Spain
			2000	2014	EU 2014
	h	Primary	3%	4%	3%
C.1	by sector of final demand	Manufacturing	43%	41%	46%
	in lat defina ha	Services	54%	55%	51%
	CO2 emission	ns in Spain emboo	lied in EU	final dei	mand
			2000	2014	EU 2014
		Primary	4%	9%	5%
C.3	by sector	Manufacturing	71%	65%	69%
		Services	25%	27%	25%
D.1	by final	Domestic	72%	68%	82%
D.1	destination*	Foreign	28%	32%	18%
Non	-EU CO2 emis	sions embodied i	n the final	demand	of Spain
			2000	2014	EU 2014
	by costar of	Primary	2%	2%	2%
C.6	by sector of final demand	Manufacturing	56%	64%	58%
	in lat defina ha	Services	42%	33%	40%
C	02 emissions	in Spain embodie	d in non-E	U final o	lemand
			2000	2014	EU 2014
		Primary	2%	6%	5%
C.11	by sector	Manufacturing	57%	67%	65%



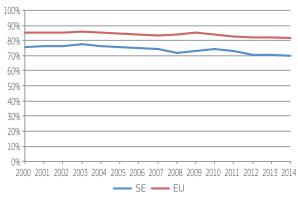
Sweden



Production perspective							
		2000	2014	EU 2014	%EU		
Employment	1,000 jobs	4,301	4,750	226,884	2%		
Value added	bn EUR	249	382	12,488	3%		
CO ₂ emissions	m tCO2	72	51	3,711	1%		

Consumption perspective							
		2000	2014	EU 2014	%EU		
Employment	1,000 jobs	5,920	6,662	286,551	2%		
Value added	bn EUR	227	359	11,984	3%		
CO ₂ emissions	m tCO2	89	82	4,328	2%		

Share of total CO₂ emissions in Sweden and in the EU supported by EU final demand, 2000-2014 (%)





Sweden

	_	

EU	CO2 emission	ns embodied in th	ne final dei	mand of	Sweden
			2000	2014	EU 2014
	h	Primary	2%	3%	3%
C.1	by sector of final demand	Manufacturing	39%	39%	46%
	india activation	Services	59%	58%	51%
C	02 emissions	in Sweden emb	odied in EL	J final de	emand
			2000	2014	EU 2014
		Primary	3%	9%	5%
C.3	C.3 by sector	Manufacturing	48%	52%	69%
		Services	49%	38%	25%
D.1	by final	Domestic	56%	53%	82%
D.1	destination*	Foreign	44%	47%	18%
Non-	EU CO2 emiss	ions embodied in	the final c	lemand	of Sweden
			2000	2014	EU 2014
	hu an tau af	Primary	1%	1%	2%
C.6	by sector of final demand	Manufacturing	54%	50%	58%
	initia dernand	Services	44%	48%	40%
CO	2 emissions ir	n Sweden embod	ied in non-	EU final	demand
			2000	2014	EU 2014
		Primary	2%	9%	5%
C.11	by sector	Manufacturing	46%	41%	65%
		Services	52%	50%	31%

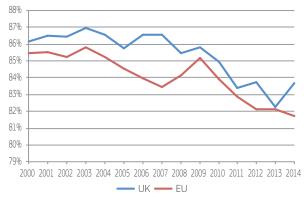


United Kingdom



Production perspective							
		2000	2014	EU 2014	%EU		
Employment	1,000 jobs	27,482	30,726	226,884	14%		
Value added	bn EUR	1,502	2,007	12,488	16%		
CO ₂ emissions	m tCO2	616	488	3,711	13%		
	Consun	nption pe	rspective				
		2000	2014	EU 2014	%EU		
Employment	1,000 jobs	46,751	44,315	286,551	15%		
Value added	bn FUR	1,511	2,024	11,984	17%		
value auueu	DITEOR	1,911	2,024	11,904	1/70		

Share of total CO₂ emissions in the United Kingdom and in the EU supported by EU final demand, 2000-2014 (%)





United Kingdom



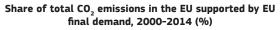
	EU CO2 em	issions embodied of the United K		al dema	nd
			2000	2014	EU 2014
		Primary	2%	2%	3%
C.1	by sector of final demand	Manufacturing	47%	41%	46%
		Services	50%	57%	51%
	CO2 emission	s in the United Ki	-	nbodied	in EU
		final dema	1 1		
			2000	2014	EU 2014
		Primary	6%	6%	5%
C.3	C.3 by sector	Manufacturing	64%	58%	69%
		Services	30%	35%	25%
D.1	by final	Domestic	77%	77%	82%
D.1	destination*	Foreign	23%	23%	18%
	Non-EU CO2	emissions embodi		final der	nand
		of the United K	. T		
			2000	2014	EU 2014
	by sector of	Primary	2%	2%	2%
C.6	final demand	Manufacturing	53%	55%	58%
		Services	45%	44%	40%
CC	02 emissions i	in the United King		odied in	non-EU
		final dema	1 1		
			2000	2014	EU 2014
		Primary	14%	10%	5%
C.11	by sector	Manufacturing	54%	59%	65%
		Services	32%	31%	31%

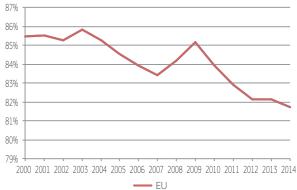
European Union



Production perspective							
		2000	2014	2014/2000			
Employment	1,000 jobs	215,311	226,884	5%			
Value added	bn EUR	8,560	12,488	46%			
CO ₂ emissions	m tCO2	4,516	3,711	-18%			

Consumption perspective							
		2000	2014	2014/2000			
Employment	1,000 jobs	293,810	286,551	-2%			
Value added	bn EUR	8,471	11,984	41%			
CO ₂ emissions	m tCO2	4,991	4,328	-13%			







European Union



EU CO2 emissions embodied in the final demand of the EU						
			2000	2014		
C.1 by	h	Primary	3%	3%		
	by sector of final demand	Manufacturing	49%	46%		
	demand	Services	48%	51%		
C.3		Primary	5%	5%		
	by sector	Manufacturing	70%	69%		
		Services	25%	25%		
D.1	by final	Domestic	85%	82%		
	destination*	Foreign	15%	18%		
Non-EU CO2 emissions embodied in the final demand of the EU						
			2000	2014		
		Primary	4%	2%		
C.6 ^b	by sector of final demand	Manufacturing	57%	58%		
	uernanu	-				
		Services	39%	40%		
CO	2 emissions in th	Services e EU embodied in r				
CO	2 emissions in th					
CO	2 emissions in th		non-EU final	demand		
CO C.11	2 emissions in th by sector	e EU embodied in r	non-EU final (2000	demand 2014		

* Foreign includes non-EU final demand.



DATA SOURCES AND METHODOLOGY

World Input-Output Database

The European Commission-funded World Input-Output Database (WIOD) consists of a set of harmonised Supply, Use, and Input-Output (IO) tables, valued at current prices and prices of the previous year. It also includes data on international trade, industry output, value added (VA), capital stock and investment, as well as satellite accounts with various environmental and socio-economic indicators, such as energy, water, land, and materials consumption, emissions, wages and employment. The latest version of the database (Release 2016) covers 28 EU Member States and 15 other major economies in the world as well as the "Rest of the World" as an aggregated region. The new WIOD database features a breakdown of 56 industries, but lacks data on CO, emissions.

Therefore, the WIOD database has been complemented with data from the EU Science Hub of the European Commission. This organism published in 2019 the update of the WIOD Environmental Accounts for the period 2000 – 2016 (Corsatea et al. 2019). These accounts are consistent with the WIOD 2016 http://www.wiod. org/release16, and include CO_2 emissions by 56 industries and households.

The WIOD database is freely downloadable at www.wiod.org. A detailed description of the content is also available there. Likewise, the update of the WIOD Environmental Accounts with the accompanying documentation are available at https://ec.europa.eu/jrc/en/research-topic/economic-environmental-and-social-effects-of-globalisation.

Methodology

As mentioned in the introduction, this publication includes a set of tables related to the CO_2 emissions embodied in the final demand of the countries covered by the WIOD database. The information for the calculation of the general indicators comes directly from the WIOD database with only minor additional calculations to obtain some derived indicators such as shares or intensities.

However, the method for the calculation of these indicators is not straightforward and requires further explanation. In order to obtain the EU and Non-EU CO_2 emissions embodied in the final demand of EU and Non-EU countries we have used a Multi-Regional Input-Output (MRIO) model together with the information of WIOD. These



models have been widely used to explore different economic and environmental consequences of trade (Miller and Blair, 2009; Murray and Lenzen, 2013).

Following Arto et al. (2019), the methodology is described for the case of four regions (2 EU countries and 2 Non-EU countries) with n industries, but it can be applied to any number of regions and industries. In this study, the model was applied to 44 regions, 56 industries (for simplicity we have aggregated the results to 10 industries and 3 sectors). Note that the MRIO tables used in the calculations are industry by industry IO tables. Accordingly, all the data reported in this document is reported by industry (e.g. we report the CO_2 emissions embodied in the final demand of products of the manufacturing industry).

The starting point of the model is a MRIO table at basic prices. This table describes the flows of goods and services from all industries to all intermediate and final users, explicitly broken down by countries of origin and by countries of destination in each flow.

We can distinguish three main components in the MRIO table:

$$\mathsf{Z} = \begin{bmatrix} \mathsf{Z}^{11} \mathsf{Z}^{12} \mathsf{Z}^{13} \mathsf{Z}^{14} \\ \mathsf{Z}^{21} \mathsf{Z}^{22} \mathsf{Z}^{23} \mathsf{Z}^{24} \\ \mathsf{Z}^{31} \mathsf{Z}^{32} \mathsf{Z}^{33} \mathsf{Z}^{34} \\ \mathsf{Z}^{41} \mathsf{Z}^{42} \mathsf{Z}^{43} \mathsf{Z}^{44} \end{bmatrix}, \ \mathsf{f} = \begin{bmatrix} \mathsf{f}^{11} + \mathsf{f}^{12} + \mathsf{f}^{13} + \mathsf{f}^{14} \\ \mathsf{f}^{21} + \mathsf{f}^{22} + \mathsf{f}^{23} + \mathsf{f}^{24} \\ \mathsf{f}^{31} + \mathsf{f}^{32} + \mathsf{f}^{33} + \mathsf{f}^{34} \\ \mathsf{f}^{41} + \mathsf{f}^{42} + \mathsf{f}^{43} + \mathsf{f}^{44} \end{bmatrix}, \ \mathsf{x} = \begin{bmatrix} \mathsf{x}^{1} \\ \mathsf{x}^{2} \\ \mathsf{x}^{3} \\ \mathsf{x}^{4} \end{bmatrix}$$

where Z^{rs} is the intermediate matrix with sectorial deliveries from country *r* to country *s*; f^{rs} is the column vector of country *s* final demand (including household consumption, government consumption, and investment) for goods produced by country *r*, and \mathbf{x}^{r} is the column vector of gross output for country *r*. Furthermore, let us assume that the MRIO table is extended to include a vector of CO₂ emissions by industry \mathbf{w} and a vector of CO₂ emissions emitted directly by households \mathbf{h} :

$$\mathbf{w} = \begin{bmatrix} \mathbf{w}^{1} \\ \mathbf{w}^{2} \\ \mathbf{w}^{3} \\ \mathbf{w}^{4} \end{bmatrix}, \mathbf{h} = \begin{bmatrix} h^{1} \\ h^{2} \\ h^{3} \\ h^{4} \end{bmatrix}$$

The relation between \mathbf{x} , \mathbf{Z} and \mathbf{f} is defined by the accounting equation $\mathbf{x} = \mathbf{Z}\mathbf{i} + \mathbf{f}$, where \mathbf{i} is the column summation vector consisting of ones.



The input coefficient matrix for the EU is defined as $\mathbf{A} = \mathbf{Z}(\hat{\mathbf{x}})^{-1}$, where $(\hat{\mathbf{x}})$ is a diagonal matrix with the values of vector along the diagonal and zero elsewhere. Thus, the accounting equation can now be written as the standard input-output model: $\mathbf{x} = \mathbf{A}\mathbf{x} + \mathbf{f}$. For an certain final demand vector \mathbf{f} , the solution to the model is

given by $\mathbf{x} = \mathbf{Bf}$, where $\mathbf{B} = (\mathbf{I} - \mathbf{A})^{-1}$ is the Leontief inverse of the word input-output table. Thus, multiplying the Leontief inverse by the final demand- we obtain the total output to satisfy the final demand of goods and services:

[1]

[2]

The CO₂ emissions coefficients vector, **v** = $(\mathbf{\hat{x}})^{-1}$, yields the CO₂ emissions per unit of output. Hence, the CO₂ emissions by industry and country associated to the production of goods in order to satisfy total final demand **f** is given by

We can write expression [2] in its partitioned form as:

$\begin{bmatrix} W^1 \\ W^2 \end{bmatrix}$	$\begin{bmatrix} \hat{v}^1 \ 0 \ 0 \ 0 \\ 0 \ \hat{v}^2 \ 0 \ 0 \end{bmatrix}$	$\left[\begin{array}{c} B^{11} & B^{12} & B^{13} & B^{14} \\ B^{21} & B^{22} & B^{23} & B^{24} \\ B^{31} & B^{32} & B^{33} & B^{34} \\ B^{41} & B^{42} & B^{43} & B^{44} \end{array}\right]$	f ¹¹ + f ¹² + f ¹³ + f ¹⁴ f ²¹ + f ²² + f ²³ + f ²⁴	[-7]
$\begin{bmatrix} w^3 \\ w^4 \end{bmatrix}$	0 0 ŷ ³ 0 0 0 0 ŷ ⁴	$\begin{bmatrix} B^{31} B^{32} B^{33} B^{34} \\ B^{41} B^{42} B^{43} B^{44} \end{bmatrix}$	f ³¹ + f ³² + f ³³ + f ³⁴ f ⁴¹ + f ⁴² + f ⁴³ + f ⁴⁴	[5]

From expression [3] we can derive the different indicators reported in this publication. For example, the CO_2 emissions in the EU embodied in the final demand of EU country 1 can be calculated as:

$\begin{aligned} c^{EU,1} &= (v^1)^{'} B^{11} f^{11} + (v^1)^{'} B^{12} f^{21} + (v^1)^{'} B^{13} f^{31} + (v^1)^{'} B^{14} f^{41} \\ &+ (v^2)^{'} B^{21} f^{11} + (v^2)^{'} B^{22} f^{21} + (v^2)^{'} B^{23} f^{31} + (v^2)^{'} B^{24} f^{41} + h^1 \end{aligned}$

where $(v^i)^i B^{ii} f^{ik}$ is the CO₂ emissions in country *i* of the EU embodied in the final demand of EU country *k* of final products produced by country *j* and h^1 is the CO₂ emissions emitted directly by households in country 1. The domestic component of the CO₂ emissions footprint of EU country 1 would be de sum of the first four components of expression [4] plus the last one.

Similarly, the emissions in country 1 of the EU embodied in the demand of the whole EU can be calculated as:

$\begin{aligned} \boldsymbol{c}^{l,\varepsilon \upsilon} &= (\mathbf{v}^{1})^{\prime} \ \mathbf{B}^{11} \mathbf{f}^{11} + (\mathbf{v}^{1})^{\prime} \ \mathbf{B}^{12} \mathbf{f}^{21} + (\mathbf{v}^{1})^{\prime} \ \mathbf{B}^{13} \mathbf{f}^{31} + (\mathbf{v}^{1})^{\prime} \ \mathbf{B}^{14} \mathbf{f}^{41} \\ &+ (\mathbf{v}^{1})^{\prime} \ \mathbf{B}^{11} \mathbf{f}^{12} + (\mathbf{v}^{1})^{\prime} \ \mathbf{B}^{12} \mathbf{f}^{22} + (\mathbf{v}^{1})^{\prime} \ \mathbf{B}^{13} \mathbf{f}^{32} + (\mathbf{v}^{1})^{\prime} \ \mathbf{B}^{14} \mathbf{f}^{42} + \boldsymbol{h}^{1} \end{aligned} \tag{5}$

From expression [3] we can also derive the Non-EU $\rm CO_2$ emissions embodied in the final demand of the EU country 1:

$$\begin{array}{l} c^{noEU,1} = (v^3)^i \ B^{31}f^{11} + (v^3)^i \ B^{32}f^{21} + (v^1)^i \ B^{33}f^{31} + (v^3)^i \ B^{34}f^{41} \\ + (v^4)^i \ B^{41}f^{11} + (v^4)^i \ B^{42}f^{21} + (v^4)^i \ B^{43}f^{31} + (v^4)^i \ B^{44}f^{41} \end{array} \qquad [6]$$

The total CO_2 emissions footprint of country 1 would be the sum of the elements in expressions [4] and [6].

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doi:10.2760/63460 ISBN 978-92-76-18825-4