



# Contents

<b>Foreword</b>	3
<b>Introduction</b>	4
<b>Symbols and abbreviations</b>	8
<b>1. General data</b>	13
<b>2. Energy indicators</b>	19
2.1 Energy prices	20
2.2 Electricity markets	31
2.3 Primary energy production	33
2.4 Energy trade & dependency	40
2.5 Energy consumption	47
2.6 Renewable energy sources	60
2.7 Energy savings, efficiency & intensity	73
2.8 Energy industry	82
2.9 Oil and petroleum products	88
<b>3. Transport indicators</b>	91
3.1 Transport equipment	92
3.2 Freight transport	102
3.3 Passenger transport	123
3.4 Transport safety	132
<b>4. Environment indicators</b>	141
4.1 Emissions of greenhouse gases and air pollutants	142
4.2 Material flow accounts	153
4.3 Waste	162
4.4 Chemicals	178
4.5 Forestry	182
4.6 Biodiversity	196
4.7 Water	199
4.8 Environmental goods and services	205



<b>4.9 Environmental taxes</b>	<b>209</b>
<b>4.10 Environmental protection expenditure</b>	<b>218</b>
<b>Annexes</b>	<b>229</b>
<b>Annex A: Glossary of terms used in the energy section</b>	<b>230</b>
<b>Annex B: Terms and methodology used in the transport section</b>	<b>233</b>
<b>Annex C: Glossary of terms used in the environment section</b>	<b>235</b>
<b>Annex D: Calorific values and conversion factors</b>	<b>240</b>
<b>Annex E: A practical guide to accessing European statistics</b>	<b>242</b>

vkm vehicle-kilometre

## ABBREVIATIONS

	UNITS OF MEASUREMENT
AWU	annual work units
CARE	Community Road Accident Database
CEPA	Classification of Environmental Protection Activities
CH <sub>4</sub>	methane
CHP	combined heat and power
CMR	carcinogenic, mutagenic and reprotoxic
CO <sub>2</sub>	carbon dioxide
DEU	domestic extraction used
DMC	domestic material consumption
DMI	direct material input
EBCC	European Bird Census Council
ECE	United Nations Economic Commission for Europe
EEA	European Environment Agency
EPE	environmental protection expenditure
ERA	European Union Agency for Railways
FAWS	forests available for wood supply
FEC	final energy consumption
FLGT	Forest Law Enforcement, Governance and Trade
GDP	gross domestic product
GHG	greenhouse gases
GIC	gross inland consumption
kg	kilogram
km	kilometre
km <sup>2</sup>	kilometre square
Kt	kilotonne
KWh	kilowatt hour
Mt	million tonnes
Mtoe	million tonnes of oil equivalent
MWh	million kWh
MMBtu	million British thermal units
MMt	million tonnes
MMWh	million kWh
MMBtu	million British thermal units
EUR	euro
ECU	European currency unit (from 1999 to 2001)
GM	gigawatt
GWh	gigawatt hour
ha	hectare
hPa	hectopascals
hPa <sup>2</sup>	hectopascals squared
hPa·K	hectopascals kelvin
hPa·K <sup>2</sup>	hectopascals squared kelvin
hPa·K <sup>-1</sup>	hectopascals inverse kelvin
hPa·K <sup>-2</sup>	hectopascals squared inverse kelvin
hPa·K <sup>-3</sup>	hectopascals inverse cubed kelvin
hPa·K <sup>-4</sup>	hectopascals inverse fourth kelvin
hPa·K <sup>-5</sup>	hectopascals inverse fifth kelvin
hPa·K <sup>-6</sup>	hectopascals inverse sixth kelvin
hPa·K <sup>-7</sup>	hectopascals inverse seventh kelvin
hPa·K <sup>-8</sup>	hectopascals inverse eighth kelvin
hPa·K <sup>-9</sup>	hectopascals inverse ninth kelvin
hPa·K <sup>-10</sup>	hectopascals inverse tenth kelvin
hPa·K <sup>-11</sup>	hectopascals inverse eleventh kelvin
hPa·K <sup>-12</sup>	hectopascals inverse twelfth kelvin
hPa·K <sup>-13</sup>	hectopascals inverse thirteenth kelvin
hPa·K <sup>-14</sup>	hectopascals inverse fourteenth kelvin
hPa·K <sup>-15</sup>	hectopascals inverse fifteenth kelvin
hPa·K <sup>-16</sup>	hectopascals inverse sixteenth kelvin
hPa·K <sup>-17</sup>	hectopascals inverse seventeenth kelvin
hPa·K <sup>-18</sup>	hectopascals inverse eighteenth kelvin
hPa·K <sup>-19</sup>	hectopascals inverse nineteenth kelvin
hPa·K <sup>-20</sup>	hectopascals inverse twentieth kelvin
hPa·K <sup>-21</sup>	hectopascals inverse twenty-first kelvin
hPa·K <sup>-22</sup>	hectopascals inverse twenty-second kelvin
hPa·K <sup>-23</sup>	hectopascals inverse twenty-third kelvin
hPa·K <sup>-24</sup>	hectopascals inverse twenty-fourth kelvin
hPa·K <sup>-25</sup>	hectopascals inverse twenty-fifth kelvin
hPa·K <sup>-26</sup>	hectopascals inverse twenty-sixth kelvin
hPa·K <sup>-27</sup>	hectopascals inverse twenty-seventh kelvin
hPa·K <sup>-28</sup>	hectopascals inverse twenty-eighth kelvin
hPa·K <sup>-29</sup>	hectopascals inverse twenty-ninth kelvin
hPa·K <sup>-30</sup>	hectopascals inverse thirty kelvin
hPa·K <sup>-31</sup>	hectopascals inverse thirty-first kelvin
hPa·K <sup>-32</sup>	hectopascals inverse thirty-second kelvin
hPa·K <sup>-33</sup>	hectopascals inverse thirty-third kelvin
hPa·K <sup>-34</sup>	hectopascals inverse thirty-fourth kelvin
hPa·K <sup>-35</sup>	hectopascals inverse thirty-fifth kelvin
hPa·K <sup>-36</sup>	hectopascals inverse thirty-sixth kelvin
hPa·K <sup>-37</sup>	hectopascals inverse thirty-seventh kelvin
hPa·K <sup>-38</sup>	hectopascals inverse thirty-eighth kelvin
hPa·K <sup>-39</sup>	hectopascals inverse thirty-ninth kelvin
hPa·K <sup>-40</sup>	hectopascals inverse forty kelvin
hPa·K <sup>-41</sup>	hectopascals inverse forty-first kelvin
hPa·K <sup>-42</sup>	hectopascals inverse forty-second kelvin
hPa·K <sup>-43</sup>	hectopascals inverse forty-third kelvin
hPa·K <sup>-44</sup>	hectopascals inverse forty-fourth kelvin
hPa·K <sup>-45</sup>	hectopascals inverse forty-fifth kelvin
hPa·K <sup>-46</sup>	hectopascals inverse forty-sixth kelvin
hPa·K <sup>-47</sup>	hectopascals inverse forty-seventh kelvin
hPa·K <sup>-48</sup>	hectopascals inverse forty-eighth kelvin
hPa·K <sup>-49</sup>	hectopascals inverse forty-ninth kelvin
hPa·K <sup>-50</sup>	hectopascals inverse fifty kelvin
hPa·K <sup>-51</sup>	hectopascals inverse fifty-first kelvin
hPa·K <sup>-52</sup>	hectopascals inverse fifty-second kelvin
hPa·K <sup>-53</sup>	hectopascals inverse fifty-third kelvin
hPa·K <sup>-54</sup>	hectopascals inverse fifty-fourth kelvin
hPa·K <sup>-55</sup>	hectopascals inverse fifty-fifth kelvin
hPa·K <sup>-56</sup>	hectopascals inverse fifty-sixth kelvin
hPa·K <sup>-57</sup>	hectopascals inverse fifty-seventh kelvin
hPa·K <sup>-58</sup>	hectopascals inverse fifty-eighth kelvin
hPa·K <sup>-59</sup>	hectopascals inverse fifty-ninth kelvin
hPa·K <sup>-60</sup>	hectopascals inverse sixty kelvin
hPa·K <sup>-61</sup>	hectopascals inverse sixty-first kelvin
hPa·K <sup>-62</sup>	hectopascals inverse sixty-second kelvin
hPa·K <sup>-63</sup>	hectopascals inverse sixty-third kelvin
hPa·K <sup>-64</sup>	hectopascals inverse sixty-fourth kelvin
hPa·K <sup>-65</sup>	hectopascals inverse sixty-fifth kelvin
hPa·K <sup>-66</sup>	hectopascals inverse sixty-sixth kelvin
hPa·K <sup>-67</sup>	hectopascals inverse sixty-seventh kelvin
hPa·K <sup>-68</sup>	hectopascals inverse sixty-eighth kelvin
hPa·K <sup>-69</sup>	hectopascals inverse sixty-ninth kelvin
hPa·K <sup>-70</sup>	hectopascals inverse seventy kelvin
hPa·K <sup>-71</sup>	hectopascals inverse seventy-first kelvin
hPa·K <sup>-72</sup>	hectopascals inverse seventy-second kelvin
hPa·K <sup>-73</sup>	hectopascals inverse seventy-third kelvin
hPa·K <sup>-74</sup>	hectopascals inverse seventy-fourth kelvin
hPa·K <sup>-75</sup>	hectopascals inverse seventy-fifth kelvin
hPa·K <sup>-76</sup>	hectopascals inverse seventy-sixth kelvin
hPa·K <sup>-77</sup>	hectopascals inverse seventy-seventh kelvin
hPa·K <sup>-78</sup>	hectopascals inverse seventy-eighth kelvin
hPa·K <sup>-79</sup>	hectopascals inverse seventy-ninth kelvin
hPa·K <sup>-80</sup>	hectopascals inverse eighty kelvin
hPa·K <sup>-81</sup>	hectopascals inverse eighty-first kelvin
hPa·K <sup>-82</sup>	hectopascals inverse eighty-second kelvin
hPa·K <sup>-83</sup>	hectopascals inverse eighty-third kelvin
hPa·K <sup>-84</sup>	hectopascals inverse eighty-fourth kelvin
hPa·K <sup>-85</sup>	hectopascals inverse eighty-fifth kelvin
hPa·K <sup>-86</sup>	hectopascals inverse eighty-sixth kelvin
hPa·K <sup>-87</sup>	hectopascals inverse eighty-seventh kelvin
hPa·K <sup>-88</sup>	hectopascals inverse eighty-eighth kelvin
hPa·K <sup>-89</sup>	hectopascals inverse eighty-ninth kelvin
hPa·K <sup>-90</sup>	hectopascals inverse ninety kelvin
hPa·K <sup>-91</sup>	hectopascals inverse ninety-first kelvin
hPa·K <sup>-92</sup>	hectopascals inverse ninety-second kelvin
hPa·K <sup>-93</sup>	hectopascals inverse ninety-third kelvin
hPa·K <sup>-94</sup>	hectopascals inverse ninety-fourth kelvin
hPa·K <sup>-95</sup>	hectopascals inverse ninety-fifth kelvin
hPa·K <sup>-96</sup>	hectopascals inverse ninety-sixth kelvin
hPa·K <sup>-97</sup>	hectopascals inverse ninety-seventh kelvin
hPa·K <sup>-98</sup>	hectopascals inverse ninety-eighth kelvin
hPa·K <sup>-99</sup>	hectopascals inverse ninety-ninth kelvin
hPa·K <sup>-100</sup>	hectopascals inverse one hundred kelvin