CONTENTS

Introduction .................................................. 5
Grouping of countries and areas ......................... 9

Table 1. Nuclear power reactors in the world (end of 2007) .............................................. 12
Figure 1. Nuclear share of total electricity generation in 2007 .............................................. 14
Table 2. Number of countries with nuclear power reactors in operation or under construction (end of 2007) ........ 15
Table 3. Estimates of total and nuclear electrical generating capacity ........................................ 17
Figure 2. Total and nuclear electrical generating capacity ......................................................... 18
Table 4. Estimates of total electricity generation and contribution by nuclear power ................. 21
Figure 3. Percentage of electricity supplied by nuclear power .................................................. 22
Table 5. Estimates of total energy requirement (EJ), percentage used for electricity generation, and percentage supplied by nuclear energy .................................. 25
Figure 4. Estimates of total energy requirement ................................................................. 26
Table 6. Total energy requirement (EJ) by type of fuel in 2007 ................................................ 29
Figure 5. Total energy requirement by fuel type in 2007 ......................................................... 30
Figure 6. Breakdown of world total energy requirement during the period 1970–2007 ................. 32
Table 7. Fuel shares (%) of total energy requirement in 2007 .................................................. 35
Table 8. Fuel use (EJ) for electricity generation by type of fuel in 2007 ................................. 36
Table 9. Percentage contribution of each fuel type to electricity generation in 2007 .................. 37
Table 10. Estimates of population growth by region .............................................................. 39
Figure 7. Population estimates .......................................................... 40
Table 11. Estimates of total energy and electricity requirement per capita ................................. 43
Figure 8. Total energy requirement per capita . . . . . 44
Figure 9. Total electricity requirement per capita . . . 46
Table 12. Average annual growth rates during the
period 1997–2007 (%) . . . . . . . . . . . . . . . . . . 49
Figure 10. Average annual growth rates during the
period 1997–2007 . . . . . . . . . . . . . . . . . . . . . 50
Table 13. Estimates of average annual
growth rates during the period
2007–2030 (%) . . . . . . . . . . . . . . . . . . . . . . . 53
INTRODUCTION

Reference Data Series No. 1 is an annual publication — currently in its twenty-eighth edition — containing estimates of energy, electricity and nuclear power trends up to the year 2030.

Nuclear data presented in Table 1 are based on actual statistical data collected by the IAEA’s Power Reactor Information System (PRIS). Energy and electricity data for 2007, however, are estimated, since the latest available information from the Department of Economic and Social Affairs of the United Nations is for 2005. Population data originate from the World Population Prospects (2003 Revision), published by the Population Division of the UN Department of Economic and Social Affairs, and the 2005 values are estimates.

The future growth of energy, electricity and nuclear power up to the year 2030 is presented as low and high estimates in order to encompass the uncertainties associated with the future. These estimates should be viewed as very general growth trends whose validity must constantly be subjected to critical review.

The energy forecasts carried out in increasing numbers over the last years by international, national and private organizations are based on a multiplicity of different assumptions and different aggregating procedures, which make their comparison and synthesis very difficult. The basic differences refer to such fundamental input data as:

— World and regional scenarios of economic development;
— Correlation of economic growth and energy consumption;
— Assumptions on physical, economic and political constraints applying to energy production and consumption;
— Future prices of different energy sources.
The projections presented in this booklet are based on a compromise among:

- National projections supplied by each country for a recent OECD/NEA study;
- Indicators of development published by the World Bank in its World Development Indicators;
- Estimates of energy, electricity and nuclear power growth continuously carried out by the IAEA in the wake of recent global and regional projections made by other international organizations.

The nuclear generating capacity estimates presented in Table 3 are derived from a country by country ‘bottom-up’ approach. They are established by a group of experts participating each year in the IAEA’s consultancy on Nuclear Capacity Projections and based upon a review of nuclear power projects and programmes in Member States.

The low and high estimates reflect contrasting but not extreme underlying assumptions on the different driving factors that have an impact on nuclear power deployment. These factors, and the ways they might evolve, vary from country to country. The estimates presented provide a plausible range of nuclear capacity growth by region and worldwide. They are not intended to be predictive nor to reflect the whole range of possible futures from the lowest to the highest feasible.

In the low estimates, the present barriers to nuclear power development are assumed to prevail in most countries during the coming three decades:

- Low economic and electricity demand growth rates in OECD countries;
- Public opposition to nuclear power, leading to policy decisions not to consider the nuclear option in spite of its competitive costs and potential contribution to reducing environmental impacts from electricity generation;
- Institutional and financing issues preventing the implementation of previously planned nuclear programmes, in particular in countries in transition and in developing countries;
— Inadequate mechanisms for nuclear technology transfer and nuclear project funding in developing countries.

The high estimates reflect a moderate revival of nuclear power development that could result in particular from a more comprehensive comparative assessment of the different options for electricity generation, integrating economic, social, health and environmental aspects. They are based upon a review of national nuclear power programmes, assessing their technical and economic feasibility. They assume that some policy measures would be taken to facilitate the implementation of these programmes, such as strengthening of international cooperation, enhanced technology adaptation and transfer, and establishment of innovative funding mechanisms. These estimates also take into account the global concern over climate change caused by the increasing concentration of greenhouse gases in the atmosphere, and the signing of the Kyoto Protocol.

The data on electricity produced by nuclear power plants is converted to joules based on the average efficiency of a nuclear power plant, i.e. 33 per cent; data on electricity generated by geothermal heat is converted to joules based on the average efficiency of a geothermal power plant, i.e. 10 per cent. The conversion to joules of electricity generated by hydropower or by the other non-thermal sources such as wind, tide, and solar is based on the energy content of the electricity generated (the equivalent of assuming a 100 per cent efficiency).

The total energy requirement has been calculated by summing the primary energy production, the net energy trade minus changes in international bunkers and domestic stocks.

The values shown in Table 9 refer to primary energy used for the generation of electricity. Owing to differences in conversion efficiencies, the percentage values are different from the shares of electricity generation presented in Tables 1 and 5.
Energy Units

1 MW(e) = $10^6$ watts
1 GW(e) = 1000 MW(e) = $10^9$ watts
1 GJ = 1 gigajoule = $10^9$ joules
1 EJ = 1 exajoule = $10^{18}$ joules
1 EJ = 23.9 megatonnes of oil equivalent (MTOE)
1 TWh = 1 terawatt-hour = $10^9$ kWh = $3.6 \times 10^{-3}$ EJ
GROUPING OF COUNTRIES AND AREAS

The countries and geographical areas included in each grouping are listed below (IAEA Member States are denoted by an asterisk)

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Bosnia and Herzegovina*
Bulgaria*
Croatia*
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Hungary*
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Latvia*
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Montenegro*
Poland*
Republic of Moldova*
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Ukraine*
Uzbekistan*

Africa
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Angola*
Benin*
Botswana*
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Guinea
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Kenya*
Lesotho
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Madagascar*
Malawi*
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Mauritania*
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Morocco*
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Namibia*
Niger*
Nigeria*
Reunion
Rwanda
Saint Helena
Sao Tome and Principe
Senegal*
Seychelles*
Sierra Leone*
Somalia
South Africa*
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Togo*
Tunisia*
Uganda*
United Republic of Tanzania*
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Zambia*
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Middle East and South Asia
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Bahrain* Lebanon*
Bangladesh* Nepal*
Bhutan Oman
British Indian Ocean Territory Pakistan*
Cocos (Keeling) Islands Qatar*
French Southern Territories Saudi Arabia*
Heard Island&McDonald Islands Sri Lanka*
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Iran, Islamic Republic of* T.T.U.T.J of T. Palestinian A.
Iraq* United Arab Emirates*
Israel* Yemen*
Jordan*

South East Asia and the Pacific
Australia* Northern Mariana Islands
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Cook Islands Papua New Guinea
Fiji Pitcairn Islands
Indonesia* Samoa
Kiribati Singapore*
Malaysia* Solomon Islands
Maldives Thailand*
Marshall Islands* Timor Leste
Micronesia (Fed. States of) Tokelau
Myanmar* Tuvalu
New Zealand* US Minor Outlying Islands
Niue Vanuatu
Norfolk Islands Wallis and Futuna Islands

Far East
Cambodia Macau, China
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Dem. P.R. of Korea Philippines*
Japan* Taiwan, China
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Notes:
(a) Including the following data in Taiwan, China:
- 6 units in operation with total capacity of 4921 MW(e); 2 units under construction with total capacity of 2600 MW(e);
- 39.0 TWh of nuclear electricity generation, representing 19.3% of the total electricity generated.
FIGURE 1. NUCLEAR SHARE OF TOTAL ELECTRICITY GENERATION IN 2007

Note: The nuclear share of electricity generation in Taiwan, China was 19.3%.
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Notes:
(1) May include countries having reactors already in operation.
(2) Total number of countries in each group that have nuclear power reactors in operation, or under construction.
### Table 3. Estimates of Total and Nuclear Electrical Generating Capacity

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<th>Nuclear GW(e)</th>
<th>Nuclear %</th>
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<th>Nuclear GW(e)</th>
<th>Nuclear %</th>
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Note: (*) Nuclear capacity estimates take into account the scheduled decommissioning of the older units at the end of their lifetime.
FIGURE 2. TOTAL AND NUCLEAR ELECTRICAL GENERATING CAPACITY
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<th>2020</th>
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<td>Total Elect. TWh</td>
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(*) The nuclear generation data presented in this table and the nuclear capacity data presented in Table 3 cannot be used to calculate average annual capacity factors for nuclear plants, as Table 3 presents year-end capacity and not the effective capacity average over the year.
FIGURE 3. PERCENTAGE OF ELECTRICITY SUPPLIED BY NUCLEAR POWER
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Note:
(*) Total energy requirement is estimated as production of primary energy plus net trade (import - export) minus international bunkers and stock changes.
FIGURE 4. ESTIMATES OF TOTAL ENERGY REQUIREMENT
<table>
<thead>
<tr>
<th>Country Group</th>
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<th>Liquids</th>
<th>Gases</th>
<th>Biomass (b)</th>
<th>Hydro</th>
<th>Nuclear</th>
<th>Renewables (c)</th>
<th>Total</th>
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<td>28.45</td>
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Notes:
(*) Total energy requirement is estimated as production of primary energy plus net trade (import - export) minus international bunkers and stock changes.
(a) Solids do not include commercial wood.
(b) The column headed 'Biomass' includes commercial wood, combustible renewables, waste and other biomass products.
(c) The column headed 'Renewables' includes geothermal, wind, solar, tide energy and net electricity trade.
FIGURE 5. TOTAL ENERGY REQUIREMENT BY FUEL TYPE IN 2007
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Notes:

(*) Total energy requirement is estimated as production of primary energy plus net trade (import - export) minus international bunkers and stock changes.
(a) Solids do not include commercial wood.
(b) The column headed 'Biomass' includes commercial wood, combustible renewables, waste and other biomass products.
(c) The column headed 'Renewables' includes geothermal, wind, solar, tide energy and net electricity trade.
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Notes:
(a) The column headed ‘Thermal’ is the total for solids, liquids, gases, biomass and waste.
(b) The column headed ‘Renewables’ includes geothermal, wind, solar and tide energy.
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<th>Renewables (b)</th>
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</table>

Notes:
(a) The column headed 'Thermal' is the total for solids, liquids, gases, biomass and waste.
(b) The column headed 'Renewables' includes geothermal, wind, solar and tide energy.
<table>
<thead>
<tr>
<th>Country Group</th>
<th>2007</th>
<th>2010</th>
<th>2020</th>
<th>2030</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Million Inhabitants</td>
<td>Growth Rate (%/a) 1997 – 2007</td>
<td>Million Inhabitants</td>
<td>Growth Rate (%/a) 2007 – 2010</td>
</tr>
<tr>
<td>North America</td>
<td>338</td>
<td>1.12</td>
<td>348</td>
<td>0.93</td>
</tr>
<tr>
<td>Latin America</td>
<td>573</td>
<td>1.44</td>
<td>595</td>
<td>1.23</td>
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<td>Western Europe</td>
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<td>0.43</td>
<td>475</td>
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<td>-0.16</td>
<td>402</td>
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<td>2.13</td>
<td>984</td>
<td>2.05</td>
</tr>
<tr>
<td>Middle East and South Asia</td>
<td>1731</td>
<td>2.04</td>
<td>1816</td>
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<td>South East Asia and the Pacific</td>
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<td>1.49</td>
<td>428</td>
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<tr>
<td>Far East</td>
<td>1743</td>
<td>0.88</td>
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<td>0.67</td>
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<td>World Total</td>
<td>6602</td>
<td>1.30</td>
<td>6827</td>
<td>1.12</td>
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</table>

(*): Projection figures are the arithmetic average between low and high estimates.
FIGURE 7. POPULATION ESTIMATES

North America | Latin America | Western Europe | Eastern Europe
2007 | 2010 | 2020 | 2030

Millions of Inhabitants

0 | 500 | 1000 | 1500 | 2000 | 2500

FIGURE 7. POPULATION ESTIMATES
<table>
<thead>
<tr>
<th>Country Group</th>
<th>2007 Energy Requirement per Capita (GJ/cap)</th>
<th>2007 Electricity Requirement per Capita (MWh/cap)</th>
<th>2010 Energy Requirement per Capita (GJ/cap)</th>
<th>2010 Electricity Requirement per Capita (MWh/cap)</th>
<th>2020 Energy Requirement per Capita (GJ/cap)</th>
<th>2020 Electricity Requirement per Capita (MWh/cap)</th>
<th>2030 Energy Requirement per Capita (GJ/cap)</th>
<th>2030 Electricity Requirement per Capita (MWh/cap)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Latin America</td>
<td>54</td>
<td>2.1</td>
<td>54 – 55</td>
<td>2.1 – 2.2</td>
<td>58 – 65</td>
<td>2.4 – 2.8</td>
<td>64 – 80</td>
<td>2.8 – 3.9</td>
</tr>
<tr>
<td>Western Europe</td>
<td>149</td>
<td>6.5</td>
<td>148 – 151</td>
<td>6.7 – 6.9</td>
<td>149 – 161</td>
<td>7.3 – 9.0</td>
<td>150 – 175</td>
<td>7.9 – 11.8</td>
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<tr>
<td>Eastern Europe</td>
<td>142</td>
<td>4.6</td>
<td>145 – 149</td>
<td>4.8 – 5.1</td>
<td>164 – 185</td>
<td>6.1 – 8.3</td>
<td>185 – 228</td>
<td>7.7 – 13.8</td>
</tr>
<tr>
<td>Africa</td>
<td>30</td>
<td>0.6</td>
<td>29 – 30</td>
<td>0.6 – 0.6</td>
<td>29 – 33</td>
<td>0.7 – 0.8</td>
<td>29 – 37</td>
<td>0.7 – 1.1</td>
</tr>
<tr>
<td>Middle East and South Asia</td>
<td>27</td>
<td>0.7</td>
<td>28 – 29</td>
<td>0.7 – 0.8</td>
<td>30 – 34</td>
<td>0.8 – 1.1</td>
<td>34 – 42</td>
<td>1.0 – 1.5</td>
</tr>
<tr>
<td>South East Asia and the Pacific</td>
<td>61</td>
<td>1.7</td>
<td>63 – 66</td>
<td>1.8 – 1.9</td>
<td>71 – 82</td>
<td>2.2 – 2.6</td>
<td>83 – 104</td>
<td>2.7 – 3.6</td>
</tr>
<tr>
<td>Far East</td>
<td>68</td>
<td>2.9</td>
<td>73 – 74</td>
<td>2.9 – 3.0</td>
<td>90 – 99</td>
<td>3.8 – 4.3</td>
<td>110 – 132</td>
<td>4.8 – 5.8</td>
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<td>World Average</td>
<td>74</td>
<td>2.8</td>
<td>74 – 76</td>
<td>2.8 – 2.9</td>
<td>78 – 87</td>
<td>3.1 – 3.7</td>
<td>84 – 102</td>
<td>3.5 – 4.8</td>
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</table>
Figure 8. Total energy requirement per capita.
FIGURE 9. TOTAL ELECTRICITY REQUIREMENT PER CAPITA
<table>
<thead>
<tr>
<th>Country Group</th>
<th>Population</th>
<th>Total Energy</th>
<th>Total Electricity</th>
<th>Nuclear Energy</th>
<th>Nuclear Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>North America</td>
<td>1.1</td>
<td>1.0</td>
<td>1.8</td>
<td>2.4</td>
<td>0.2</td>
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<tr>
<td>Latin America</td>
<td>1.4</td>
<td>2.2</td>
<td>3.6</td>
<td>3.1</td>
<td>3.6</td>
</tr>
<tr>
<td>Western Europe</td>
<td>0.4</td>
<td>1.0</td>
<td>1.8</td>
<td>-0.1</td>
<td>-0.4</td>
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<td>1.8</td>
<td>2.6</td>
<td>0.3</td>
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<tr>
<td>Africa</td>
<td>2.1</td>
<td>3.4</td>
<td>4.0</td>
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<td>--</td>
</tr>
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<td>8.7</td>
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<tr>
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<td>0.9</td>
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<td>7.0</td>
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</table>
FIGURE 10. AVERAGE ANNUAL GROWTH RATES DURING THE PERIOD 1997 — 2007
<table>
<thead>
<tr>
<th>Country Group</th>
<th>Population</th>
<th>Total Energy</th>
<th>Total Electricity</th>
<th>Nuclear Energy</th>
<th>Nuclear Capacity</th>
</tr>
</thead>
<tbody>
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<tr>
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<td>-1.6</td>
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<tr>
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<td>0.9</td>
<td>2.0</td>
<td>2.5</td>
<td>2.3</td>
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<tr>
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<td>1.8</td>
<td>1.7</td>
<td>2.5</td>
<td>4.8</td>
<td>4.0</td>
</tr>
<tr>
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<td>2.3</td>
<td>2.8</td>
<td>7.9</td>
<td>5.9</td>
</tr>
<tr>
<td>South East Asia and the Pacific</td>
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<td>2.2</td>
<td>2.8</td>
<td>3.5</td>
<td>3.0</td>
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<tr>
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<td>2.7</td>
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