



World Energy Council
CONSEIL MONDIAL DE L'ENERGIE

ENERGY AND CLIMATE CHANGE STUDY



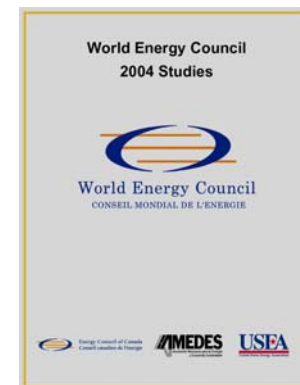
United Nations Climate Change Conference
CoP11 – CoP/MoP1
Montreal – December 6, 2005



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World Energy Council Global Studies: 2002-2004

- Drivers of the Energy Scene
- Handbook of Renewable Energy Projects
- Comparison Of Energy Systems Using Life Cycle Assessment
- Towards Local Energy Systems: Revitalizing District Heating and Cogeneration in Central and Eastern Europe
- Energy Market Reform: Lessons Learned and Next Steps with Special Emphasis on the Energy Access Problems of Developing Countries
- Performance of Generating Plant: New Realities, New Needs
- Sustainable Global Energy Development: The Case of Coal
- Energy Efficiency Policies: A Worldwide View
- Energy End-Use Technologies for the 21st Century
- Survey of Energy Resources





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World Energy Council Global Studies: 2005-2007

- **Scenarios to 2050:**
 - Policies to achieve sustainable energy supply and use
- **Survey of Energy Resources – 21st Edition:**
 - Comprehensive collection of global energy statistics
- **Energy & Climate Change:**
 - How effective climate change policies can shape sustainable energy development



Energy & Climate Change Study

- **A Conclusion of the 2004 World Energy Congress (Sydney) states:**

“Climate Change is a serious global concern, calling for changes in consumer behaviour, but offering potential win-win opportunities. These include increased transfer of efficient technologies from industrialized to developing countries, and incentives to investment through emerging voluntary and regulated emissions trading and other mechanisms”

- **Sustainable development involves meeting a range of goals – economic, social and environmental**
- **Climate Change policies must be designed to address these goals**

How do the policies and measures introduced by countries match up to these objectives?



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Energy & Climate Change Study: A Concise Input to Decision Makers

- **Part I: Trends in CO₂ emissions**
- **Part II: Energy related climate change response policies**
- **Part III: Assessment of policy approaches**
- **Part IV: Recommendations of forward looking policies and measures**



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Energy & Climate Change Study: The Study Process

- **Part I: Trends in CO₂ emissions**
 - Current emission levels and trends over past 30 years
 - Trends by sector (transport, buildings, power generation, industry)
 - Relationship between trends and key factors (GDP, natural resource endowment, energy mix, industrial structure)
 - Identify major anomalies and discontinuities
 - Key drivers of emissions
- **Part II: Energy related climate change response policies**
 - Institutions, strategies and measures currently in place and/or under consideration
 - Types of approach by main categories (supply side, demand side, economic instruments, technology)
 - Differences in national approaches and patterns



Energy & Climate Change Study: The Study Process

- **Part III: Assessment of policy approaches**
 - Assessment of the impacts of the main policy and measures identified in Part II – actual and/or expected
 - Compared with the World Energy Council objectives of:
 - Accessibility
 - Availability
 - Acceptability
- **Part IV: Recommendations of forward looking policies and measures**
 - The future direction of climate change strategies



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Energy & Climate Change Study: The Study Team

- **Study Chair:** **Kurt Yeager**, President Emeritus, Electric Power Research Institute - EPRI
- **Study Director:** **Malcolm Keay**, Senior Research Fellow, Oxford Institute for Energy Studies
- **Study Team Members:**

Canada	Côte d'Ivoire	Croatia
Denmark	Egypt	France
Finland	Germany	Greece
India	Japan	Korea (Rep.)
Kuwait	Macedonia Rep.	Portugal
Saudi Arabia	Spain	Switzerland
Thailand	United Kingdom	Argentina
Australia		



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Energy & Climate Change Study: The Timeline

- **Study formally launched: December 2005**
- **Final report: World Energy Congress – Rome 2007**
- **Interim “Statements”**



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Energy & Climate Change Study

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