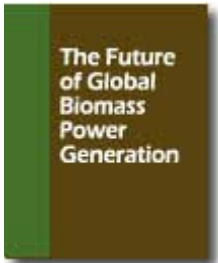


## The Future of Global Biomass Power Generation

The technology, economics and impact of biomass power generation



### Introduction

In the twenty-first century, energy producers must meet environmental targets, leading to a shift away from fossil fuels and towards renewable sources of energy. As a result biomass is becoming an increasingly attractive option to energy providers.

**Biomass is simple and cost effective with some estimates predicting that by 2050, it could provide 50% of the world's primary energy needs.** The next ten years will see the development of efficient systems to convert biomass into electricity and spur the development of a fast growth new global bio-power industry.

**The Future of Global Biomass Power Generation: The technology, economics and impact of biomass power generation** is a strategic anagement report detailing existing biomass resources and the costs and efficacy of introducing new energy crop resources in the future. It appraises the various means of converting these resources to power in cost and energy efficiency terms whilst also considering the environmental impact.

This report addresses the following questions:

- \* **Which biomass fuels are most cost effective at present** in terms of availability and collection, transportation and technology costs?
- \* **What are the options available for introducing biomass into existing operations?** Which method is the most cost effective and will this change over time?
- \* **How will European biomass power generation grow between now and 2020** and how does this compare to hydro-electric and wind power?
- \* **What proportion of urban waste can be burned as a biomass fuel?** How does this compare to agricultural and forestry residues?



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## The Future of Global Biomass Power Generation: The technology, economics and impact of biomass power generation

Benefit from over 120 pages of expert insight and analysis, enabling you to:

- **Assess the potential size of the biomass market**, the size and types of fuel available and cost comparison with traditional fuels
- **Identify the most effective biomass conversion technology** using an assessment of the range of choices from direct firing, through co-firing to gasification and more specialised methods
- **Determine which forms of biomass are the most cost effective and energy efficient.** How will this change as the market grows?
- **Evaluate the viability of energy crops.** Which crops have the highest yields where do they flourish and what is the environmental impact of their cultivation?
- **Improve your planning using this report's forecasts.** Anticipate stricter emissions targets and the effect on your costs of these changes

Published March 2004

Available for \$1535 USD Acrobat and print versions

## The Future of Global Biomass Power Generation

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