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Nota di contenuto	Cover; Preface; Acknowledgements; table of contents; Introduction; 1. Policies And Incentives Developments In Co2 Capture And Storage Technology: A Focused Survey By The Co2 Capture Project; 2. Review And Evaluation Of The Co2 Capture Project By The Technology Advisory Board; 3. Economic And Cost Analysis For Co2 Capture Costs In The Co2 Capture Project Scenarios; 4. Post-combustion Co2 Separation Technology Summary; 5. Co2 Removal From Power Plant Flue Gas-cost Efficient Design And Integration Study; 6. Post-combustion Separation And Capture Baseline Studies For The Ccp Industrial Scenarios 7. Kps Membrane Contactor Module Combined With Kansai/mhi Advanced Solvent, Ks-1 For Co2 Separation From Combustion Flue Gases8. Removal Of Co2 From Low Pressure Flue Gas Streams Using Carbon Fibre Composite Molecular Sieves And Electric Swing Adsorption; 9. Self-assembled Nanoporous Materials For Co2 Capture Part 1: Theoretical Considerations; 9. Self-assembled Nanoporous

Materials For Co₂ Capture Part 2: Experimental Studies; 10. Creative Chemical Approaches For Carbon Dioxide Removal From Flue Gas; 11. Pre-combustion Decarbonisation Technology Summary
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13. Development Of The Sorption Enhanced Water Gas Shift Process; 14. Coke Gasification: Advanced Technology For Separation And Capture Of Co₂ From Gasifier Process Producing Electrical Power...; 15. Development Of A Hydrogen Mixed Conducting Membrane Based Co₂ Capture Process; 16. Hydrogen Transport Membrane Technology For Simultaneous Carbon Dioxide Capture And Hydrogen Separation...
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18. Design, Scale Up And Cost Assessment Of A Membrane Shift Reactor; 19. Grace: Development Of Pd-zeolite Composite Membranes For Hydrogen Production By Membrane Reactor; 20. Grace: Development Of Silica Membranes For Gas Separation At Higher Temperatures; 21. Grace: Development Of Supported Palladium Alloy Membranes; 22. Grace: Experimental Evaluation Of Hydrogen Production By Membrane Reaction; 23. Grace: Pre-combustion De-carbonisation Hydrogen Membrane Study
24. An Evaluation Of Conversion Of Gas Turbines To Hydrogen Fuel
25. Oxyfuel Combustion For Co₂ Capture Technology Summary; 26. The Oxyfuel Baseline: Revamping Heaters And Boilers To Oxyfiring By Cryogenic Air Separation...; 27. Zero Recycle Oxyfuel Boiler Plant With Co₂ Capture; 28. Zero Or Low Recycle In-duct Burner Oxyfuel Boiler Feasibility Study; 29. A Comparison Of The Efficiencies Of The Oxy-fuel Power Cycles Water-cycle, Graz-cycle And Matiant-cycle; 30. Revamping Heaters And Boilers To Oxyfiring-producing Oxygen By Itm Technology
31. Techno-economic Evaluation Of An Oxyfuel Power Plant Using Mixed Conducting Membranes

Sommario/riassunto

Over the past decade, the prospect of climate change resulting from anthropogenic CO₂ has become a matter of growing public concern. Not only is the reduction of CO₂ emissions extremely important, but keeping the cost at a manageable level is a prime priority for companies and the public, alike. The CO₂ capture project (CCP) came together with a common goal in mind: find a technological process to capture CO₂ emissions that is relatively low-cost and able to be expanded to industrial applications. The Carbon Dioxide Capture and Storage P
