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Nota di contenuto	Contents; Foreword; Acknowledgments; Acronyms and Abbreviations; Units of Measure; Executive Summary; Potential CCS Deployment in the Power Sector in Southern Africa and the Balkans; Assessment of Legal and Regulatory Frameworks Applicable to Potential CCS Deployment in Southern Africa and the Balkans; The Role of Climate Finance Sources to Accelerate Carbon Capture and Storage Deployment in Developing Countries; Finance Structures and Their Impacts on Levelized Cost of Electricity for Power Plants with CCS; Conclusions; Note; Reference; Chapter 1 Introduction; References Chapter 2 Technology Overview and Status of CCS DevelopmentCCS Technology; Figures; Figure 2.1: Diagram of a Power Plant with CCS with Offshore Storage and Enhanced Oil Recovery; Economics; Tables; Table 2.1: Active Large-Scale Integrated CCS Projects; Figure 2.2: Comparison of Studies of LCOE Increase and Net Efficiency Decrease for Post-Combustion Power Plants with CCS; Notes; References; Chapter 3 Techno-Economic Assessment of Carbon Capture and Storage Deployment in the Power Sector in the Southern African and Balkan Regions; Overview of Results; Table 3.1: Summary of Findings

MethodologySouthern African Region; Figure 3.1: Electricity Generation for Southern African Region-Reference Scenario; Figure 3.2: Electricity Generation for Southern African Region-Baseline Scenario; Figure 3.3: Electricity Generation Portfolio for Southern African Region-US100/Ton CO2 Price Scenario; Figure 3.4: Cumulative CO2 Storage for Southern African Region-US100/Ton CO2 Scenario; Table 3.2: Summary of Installed Capacity in 2030 for the Southern African Region (MW); Figure 3.5: Summary of Results for Southern African Region, 2030
Figure 3.6: Comparison of Average Generation Costs across Scenarios for the Southern African RegionFigure 3.7: Comparison of Annual CO2 Emissions across Scenarios for the Southern African Region; The Balkan Region; Figure 3.8: Electricity Generation for the Balkan Region-Reference Scenario; Figure 3.9: CO2 Emissions for the Balkan Region-Reference Scenario; Figure 3.10: Share of CCS in Coal-Based Power Generation in the Balkan Region-Reference Scenario with EOR/ECBM Benefits; Figure 3.11: Share of CCS-Based Generation in the Balkan Region-US100/Ton CO2 Price Scenario
Figure 3.12: CO2 Stored in the Balkan Region-US100/Ton CO2 Price ScenarioFigure 3.13: CO2 Emissions for the Balkan Region-US100/Ton CO2 Price Scenario; Figure 3.14: Comparison of Average Generation Costs across Scenarios for the Balkan Region; Table 3.3: Summary of Installed Capacity in 2030 for the Balkan Region (MW); Figure 3.15: Comparison of Total CO2 Emissions across Scenarios for the Balkan Region; Notes; References; Chapter 4 Addressing the Legal and Regulatory Barriers in Developing Countries; Key International and Multilateral Legal Instruments Relevant to CCS Projects; Boxes
Box 4.1: Key Findings and Recommendations

Sommario/riassunto

Carbon Capture and Storage (CCS) technology could provide a technological bridge for achieving near to midterm GHG emission reduction goals. Integrated CCS technology is still under development and has noteworthy challenges, which would be possible to overcome through the implementation of large-scale demonstration projects. In order to assist developing countries to better understand issues related to potential technology deployment, there is a need to start analyzing various numerous challenges facing CCS within the economic and legal context of developing countries and countries in transiti