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Nota di contenuto	<p>Intro -- Foreword -- Acknowledgements -- Contents -- 1 An Introduction to Life Cycle Assessment of Natural Gas-Fired Electricity -- Introduction -- Global Evolution of Natural Gas Production and Use in Electricity Generation -- Life Cycle Assessment as a Framework to Understand Environmental Impacts of Gas-Fired Power -- LCA Methodology -- What Will Be Covered in This Book -- Summary -- References -- 2 LCA Framework, Methods, and Application -- Introduction -- General Framework -- Goal and Scope Definition -- Inventory Analysis -- Impact Assessment -- Interpretation -- Conclusion -- References -- 3 The Denominator: Natural Gas Production, Throughput, and Electricity Generation -- Introduction -- Infrastructure Lifetime -- Natural Gas Extraction -- Facility Throughput -- Power Plant Operation -- Conclusions -- References -- 4 Life Cycle Impact Assessment -- Introduction -- Impact Categories and Characterization Models -- A Focus on Improving Individual Impact Categories -- Greenhouse Gas Emissions and Other Air Pollution -- Water Consumption -- Quantification of Life Cycle Land Use Impacts -- Conclusions -- References -- 5 Global Markets and Competitiveness of Gas-Fired Power -- Introduction -- Levelized Cost of Electricity -- The Economics of Natural Gas Production -- Production Costs -- Natural Gas Markets -- Additional Costs Associated with LNG -- Implications of LNG for Life Cycle Assessment of Gas-Fired Power --</p>

Liquefaction to Power Plant -- Electricity Generation to End Use -- Conclusions -- References -- 6 Tackling Uncertainty Across the Life Cycle of Gas-Fired Power -- Introduction -- Uncertainty in LCA -- Data Sources, Precision, and Accuracy -- Probabilities -- Approaching Uncertainty in LCA -- Monte Carlo Simulation -- Sensitivity Analysis -- Break-Even (Parametric) Analysis -- Scenario Analysis -- Conclusions -- References.

7 Natural Gas as a Bridge Fuel? -- Introduction -- Compatibility with Paris Agreement -- Political, Economic, and Technological Uncertainties -- Future Research -- Conclusions -- References -- Index.

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