

1. Record Nr.	UNINA9910779067503321
Titolo	Renewable fuel standard [[electronic resource]] : potential economic and environmental effects of U.S. biofuel policy // Committee on Economic and Environmental Impacts of Increasing Biofuels Production ; Board on Agriculture and Natural Resources Division on Earth and Life Studies ; Board on Energy and Environmental Systems, Division on Engineering and Physical Sciences
Pubbl/distr/stampa	Washington, D.C., : National Academies Press, 2011
ISBN	0-309-27878-3 0-309-18752-4
Descrizione fisica	1 online resource (415 p.)
Disciplina	333.7940973
Soggetti	Renewable natural resources - United States
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	<p>""Front Matter""; ""Preface""; ""Acknowledgments""; ""Contents""; ""List of Tables, Figures, and Boxes""; ""Summary""; ""1 Introduction""; ""2 Biofuel Supply Chain""; ""3 Projected Supply of Cellulosic Biomass""; ""4 The Economics and Economic Effects of Biofuel Production""; ""5 Environmental Effects and Trade offs of Biofuels""; ""6 Barriers to Achieving RFS2""; ""APPENDIXES""; ""Appendix A: Statement of Task""; ""Appendix B: Biographical Sketches""; ""Appendix C: Presentations to the Committee""; ""Appendix D: Glossary""; ""Appendix E: Select Acronyms and Abbreviations""</p> <p>""Appendix F: Conversion Factors""""Appendix G: Petroleum-Based Fuel Economics""; ""Appendix H: Ethanol Biorefineries in Operation or Under Construction in the United States in 2010""; ""Appendix I: Biodiesel Refineries in the United States in 2010""; ""Appendix J: Economic Models Used to Assess the Effects of Biofuel Production in the United States""; ""Appendix K: BioBreak Model: Assumptions for Willingness to Accept""; ""Appendix L: BioBreak Model Assumptions""; ""Appendix M: Summary of Literature Estimates""; ""Appendix N: Blend Wall""</p> <p>""Appendix O: Safety and Quality of Biofuel Coproducts as Animal Feed""</p>

Sommario/riassunto

"In the United States, we have come to depend on plentiful and inexpensive energy to support our economy and lifestyles. In recent years, many questions have been raised regarding the sustainability of our current pattern of high consumption of nonrenewable energy and its environmental consequences. Further, because the United States imports about 55 percent of the nation's consumption of crude oil, there are additional concerns about the security of supply. Hence, efforts are being made to find alternatives to our current pathway, including greater energy efficiency and use of energy sources that could lower greenhouse gas (GHG) emissions such as nuclear and renewable sources, including solar, wind, geothermal, and biofuels. The United States has a long history with biofuels and the nation is on a course charted to achieve a substantial increase in biofuels."
