

1. Record Nr.	UNINA9910787556303321
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Titolo	The renewable energy directive and the challenges for the biodiesel industry [[electronic resource]] : insights into a dynamic and opaque industry // Markus Beck
Pubbl/distr/stampa	Hamburg, : Anchor Academic Pub., 2013
ISBN	3-95489-565-X
Descrizione fisica	1 online resource (129 p.)
Disciplina	333.794094
Soggetti	Renewable energy sources Biodiesel fuels industry
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	"Disseminate knowledge"--Cover.
Nota di contenuto	<p>The Renewable Energy Directive and the challenges for the Biodiesel Industry: Insights into a dynamic and opaque industry; Abstract (English); Resume (Francais); Resumo (Portugues); Table of contents; List of Figures; List of abbreviations and acronyms; 1. Introduction; 1.1. Motivation and research objective; 1.2. Methodological approach; 1.3. Structure of the book; 2. The Renewable Energy Directive (RED); 2.1. Background on the RED 2003/30/EC on commodity and biofuel trade; 2.2. The Renewable Energy Directives 2009/28/EC and 2009/30/EC; 3. The biofuel industry</p> <p>3.1. An overview of the biofuel industry and its players3.2. The biodiesel value chain and different types of feedstock; 3.3. Feedstock production, crushing plant and oil production; 3.4. Biofuel production and chemical background of transesterification; 3.5. Trade flows and concrete example of a Supply Chain Manager; 3.6. GHG emissions as main sustainability criteria for biodiesel; 3.7. Criticism on criteria regarding GHG emissions and biodiversity; 3.8. Crop rotation and Genetically Modified Organism; 3.9. Direct (DLUC) and indirect land use change (ILUC)</p> <p>4. Political frameworks and incentives for the biofuel industry4.1. Argentinian's export tax driven biodiesel industry; 4.2. Splash and Dash - a US case study on import and tariffs; 4.3. Sustainability certificates and voluntary schemes - 2BSvs case study; 4.4. Criticism on</p>

sustainability schemes; 4.5. An outlook into second and third generation biofuels; 4.6. Price increases and price volatility cause food shortage and hunger; 5. Conclusion; 6. Bibliography; Appendix; Acknowledgements

Sommario/riassunto

Hauptbeschreibung In response to climate change, and unsustainable energy consumption, the European Parliament launched a climate and energy package in 2009. This included the 20:20:20 Energy Strategy whose aim was to decrease the effects of climate change, in particular by lowering greenhouse gas (GHG) emissions by 2020. This 10-year action plan proposes measures to increase the current efficiency levels of energy use, and raises the share of renewable energies within the energy mix for all 27 EU Member States. As a result, the increased use of biofuels, particularly in the transport sector,
