Record Nr. UNINA9910819857403321 Autore Brownstein Arthur M. Titolo Renewable motor fuels: the past, the present and the uncertain future // Arthur M. Brownstein, ExxonMobil Corp, retired Pubbl/distr/stampa Oxford:,: Butterworth-Heinemann,, [2015] ©2015 **ISBN** 0-12-801013-4 Edizione [1st edition] Descrizione fisica 1 online resource (135 p.) Disciplina 629.25 629.2538 Soggetti Renewable energy sources Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Note generali Description based upon print version of record. Includes bibliographical references and index. Nota di bibliografia Front Cover; Renewable Motor Fuels; Copyright Page; Contents; Preface; Nota di contenuto Acknowledgment; 1 History and Legislation; 1.1 Past; 1.2 Present; 1.3 Future: 2 Ethanol by Classical Fermentation: United States and Brazil: 2.1 US Cornstarch; 2.2 Brazilian Sugar Cane; 2.3 United States Versus Brazil; 3 Ethanol from Cellulose; 4 Synthesis Gas-Based Fuels; 4.1 Lanzatech; 4.2 Ineos; 4.3 Coskata; 4.4 Syntec Biofuels; 4.5 Sundrop Fuels; 4.6 Enerkem; 4.7 Fulcrum; 4.8 Maverick Synfuels; 4.9 ExxonMobil MTG Process: 4.10 Fischer-Tropsch: 5 Isobutanol: 6 Algae as a Fuel Source; 7 Diesel Fuel; 8 Natural Gas 8.1 Industry Background8.2 Vehicle Fuel; 9 Electric Vehicles; 9.1 History; 9.2 Batteries; 9.3 Fuel Cells; 10 The Uncertain Future; 10.1 Coal; 10.2 Gasoline; 10.3 The Present and the Future; Appendix: US Cornstarch Fermentation Ethanol; Production Capacity (2013); Bibliography; Index Sommario/riassunto Considering the ever-rising costs of traditional fuel paired with the increasing scarcity of its resources, it's easy to see why exploring renewable fuels has become an increasingly critical goal for engineers, researchers, and end-users alike. However, due to the great diversity of technologies, policies, and attitudes, it can be difficult to gain a good

well-rounded understanding of these types of fuels. Renewable Motor Fuels: The Past, the Present and the Uncertain Future presents an opportunity to gain an insightful understanding of all the key aspects