

# The Collection: Global Low Carbon Fuel & Vehicle Trends by Topic (Updated)

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I've put together this post to help members easily access and track the most pertinent global low carbon fuel and vehicle trends and analyses that I've done over the past five years for the entire site. These are organized by topic and descending date order. Sure, you could use the search engine or the key to the right, but this is much more handy! And, this is a post I'll continue to update as time progresses.

## **Autonomous Mobility, Mobility as a Service (MaaS)**

- [Driverless Cars Won't Be Good for the Environment If They Lead to More Auto Use](#), Jan. 31, 2022
- [The Autonomous Vehicle Readiness of Countries Ranked](#), Sept. 25, 2019
- [Rethinking RethinkX Two Years Later](#), Mar. 13, 2019
- [Autonomous Vehicles & Fuel Demand: Boon or Curse? Heaven or Hell?](#), Feb. 28, 2019

- [Autonomous, Shared Mobility: The Emperor Has No Clothes?](#), Feb. 19, 2018
- [Will the ICE & the Oil Industry Really Collapse by 2030? Rethinking RethinkX](#), May 11, 2017
- [How to Combine Three Revolutions in Transportation for Maximum Benefit Worldwide](#), May 4, 2017
- [CAVs Could Reduce Passenger Car Fuel Consumption by 44% by 2050](#), Apr. 19, 2017
- [Infographic: Everything You Wanted to Know about Autonomous Vehicles](#), Mar. 8, 2017
- [Citi Explores the Future of Mobility & Concludes – Peak Car? No Way.](#), Nov. 2, 2016
- [DOT Lays Out Highly Automated Vehicle Policy](#), Sept. 21, 2016

## Advanced Biofuels Series (2020)

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- [Advanced Biofuels Series: Assessing Global HVO Projects](#), June 17, 2020
- [Advanced Biofuels Series: Fast Pyrolysis and Hydrothermal Liquefaction](#), May 29, 2020
- [Advanced Biofuels Series: Assessing Global Gasification Projects](#), May 20, 2020
- [Update on Global CCS/BECCS Initiatives](#), May 6, 2020
- [Advanced Biofuels Series: Assessing Fermentation Projects Globally](#), Apr. 22, 2020
- [The Status of Fossil Fuel Subsidies Globally](#), Apr. 8, 2020
- [Advanced Biofuels: On the Cusp](#), Mar. 26, 2020
- [Advanced Biofuels Series: The Current State of Carbon Pricing](#), Mar. 11, 2020

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- [Palm Oil for Biodiesel in the Amazon: Sustainable Fuel or Deforestation Risk?](#), Apr. 6, 2022
- [Whoa! Renewable Diesel Projects Explode Around the World](#), Apr. 5, 2022
- [Can Regenerative Agriculture Transform Palm Oil?](#), Mar. 28, 2022
- [Highlights from the Future of Biodiesel Web Conference](#), June 28, 2022
- [Update on the Scramble to Scale Up HVO in the U.S.](#), Sept. 8, 2021
- [Advanced Biofuels Series: The Wrap Up](#), Aug. 27, 2020
- [Why Raising the Alcohol Content of Europe's Fuels Could Reduce Carbon Emissions](#), Mar. 25, 2020
- [Does Colombia Hold the Answer to Sustainable Palm Oil?](#), Mar. 16, 2020
- [A Boycott Is Not the Answer to Palm Oil's Environmental Problems](#), Jan. 27, 2020
- [Global Biofuels: The State of Play](#), Dec. 5, 2019
- [Chinese Demand Heats Up Brazil's Ethanol Industry](#), Nov. 7, 2019
- [Can China Shift to Sustainable Palm Oil?](#), Dec. 11, 2019
- [Effects of Ethanol Blends on Light-Duty Vehicle Emissions](#), Feb. 27, 2019
- [President Trump's E15 Announcement: Much Ado about Nothing?](#), Oct. 11, 2018
- [Investigation of Mid-Level Ethanol Blends Globally](#), Aug. 14, 2018
- [Overview & Analysis of Developments in Brazil's RenovaBio Program](#), July 5, 2018
- [What Does the IMO's Initial Strategy Mean for Fuels?](#), May 25, 2018

- [Higher Biofuels Blends=A Pathway to Decarbonization](#), Apr. 19, 2018
- [Do We Need Biofuels to Decarbonize Transport?](#), Jan. 20, 2018
- [What's Really Behind Brazil's New RenovaBio Legislation](#), Jan. 15, 2018
- [Does California Need to Mandate FFVs & High-Efficiency Diesels?](#), Jan. 4, 2018
- [How the RFS, LCFS & RED Incentivized the Growth of Renewable Natural Gas \(Biomethane\)](#), Oct. 31, 2017
- [My Analysis, in One Chart: Why EPA's Proposals for the RFS Ain't Gonna Fly](#), Oct. 19, 2017
- [My Review of IAI's Report on RED II's "Significant Shortcomings"](#), June 22, 2017
- [The Commission's Climate & Energy Package = A Rocky Road for Biofuels in Europe](#), Apr. 28, 2017
- [R&D "Urgently" Needed for Biofuels in Aviation & Shipping Sectors](#), Apr. 4, 2017
- [Is Corn Ethanol the "New" Advanced Biofuel?](#), Mar. 31, 2017
- [Biofuels Key to Mitigating Growth Constraints of Aviation Industry](#), Mar. 28, 2017
- [Urbanization Will Displace Vast Tracts of Farmland by 2030: What Does It Mean for Biofuels?](#), Jan. 3, 2017
- [Biofrontiers: EU Must Prioritize Support for Advanced Biofuels](#), Oct. 12, 2016

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- [Global State of Play: National ICEV Bans/Phase Outs](#), Jan. 27, 2021
- [Separating Fact from Fiction: National ICEV Ban Policies](#), Feb. 25, 2020
- [ICEV Ban Update](#), Mar. 3, 2019
- [What Car Bans Really Mean for You in the Fuels and Vehicles Industry](#), Oct. 4, 2017
- [Will California Join the Car Ban Fray?](#), Sept. 28, 2017
- [What You Need to Know about Car Bans, the China Edition](#), Sept. 14, 2017
- [California's Climate Problem? Cars.](#), Aug. 24, 2017
- ["The Car Century Was a Mistake. It's Time to Move On."](#), June 22, 2017
- [Update on the Status of Car Bans Globally](#), June 15, 2017
- [City Diesel Car Bans May Be Affecting Sales](#), May 25, 2017
- [Four Mayors Will Ban Diesel Cars](#), Dec. 8, 2016
- [Here's A Traffic Management Strategy: "Make Them Suffer"](#), Nov. 8, 2016
- ["The Age of the Automobile Is Over"](#), Sept. 29, 2016
- [Banning Coal & the ICE to Meet 1.5°C targets](#), Aug. 12, 2016

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- [Diesel Cars Emit More CO2 than Gasoline Cars](#), Sept. 18, 2017
- [Liquid Fuels Will Continue Dominating U.S. Vehicle Fleet in 2025](#), July 19, 2017

- [Some Ship Owners May Ignore IMO Sulfur Standards and Just Pay the Fines](#), May 10, 2017
- [The Dieselgate Fallout Continues. What Will Be the Impacts?](#), Jan. 20, 2017
- [Group to Set Up Global Independent Watchdog to Prevent Another Dieselgate](#), Jan. 17, 2017
- [Diesel Is Going to “Disappear” from the Car Fleet](#), Dec. 15, 2016
- [Five African Countries to Ban Dirty Diesel Fuel](#), Dec. 6, 2016

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- [Incentivizing Decarbonization: A Review of the Inflation Reduction Act](#), Aug. 24, 2022
- [Can the EU and China Align Their Carbon Markets?](#), May 21, 2022
- [The Secrets to Passing Climate Legislation – Even in Red States](#), May 7, 2022
- [The Reforms Needed for “Deep Decarbonisation” in China](#), Apr. 21, 2022
- [The History of Energy Transitions: It’s Not Our First One](#), Apr. 12, 2022
- [All Countries Are Failing to Meet Air Quality Standards. Transport Is a Big Reason Why.](#), Mar. 29, 2022
- [The First Year of China’s Carbon Neutrality Pledge, in Numbers](#), Mar. 14, 2022
- [Ranked: The Top 10 Countries by Energy Transition Investment](#), Feb. 23, 2022
- [EU Carbon Tax Puts a Price on Shipping Emissions](#), Feb. 14, 2022
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- [The U.S. Approach to Climate Change Right Now: Incentives, Incentives, Incentives](#), Nov. 30, 2021
- [COP26 Outcomes: What Does It Mean for Transport Energy?](#), Nov. 16, 2021
- [Assessing the Democratic Climate Plans: What’s in Store for the Industries?](#), Sept. 4, 2020
- [Why We Need the Opposite of a Carbon Tax to Reduce Emissions](#), July 9, 2020
- [China Must ‘Leap over Oil Age’ to Meet Climate Challenge](#), Mar. 3, 2020
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- [Soil Carbon Is a Valuable Resource, but All Soil Carbon Is Not Created Equal](#), Feb. 27, 2020
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- [China Uniquely Placed to Green Shipping](#), July 18, 2019
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- [Do We Have an “Existential Crisis” with Climate Change?](#), June 4, 2019
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- [EU GHG Emissions from Transport Increase for the Second Year in a Row](#), June 2, 2017
- [London & Paris Mayors Start an “Air’Volution”](#), Mar. 30, 2017
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- [The State of Global Air Pollution Isn’t That Great](#), Feb. 16, 2017
- [You Can Have Low Carbon & Economic Growth](#), Feb. 2, 2017
- [CARB Releases Scoping Plan for Reducing GHGs 40% by 2030](#), Jan. 23, 2017
- [Trump or No, Companies Cutting GHG Emissions Anyway](#), Dec. 13, 2016
- [UNICEF: 300 Million Children Live in Toxic Air Pollution; Culprits Include Fuels, Vehicles](#), Nov. 1, 2016
- [Is Our Low Carbon Future Sustainable?](#), Sept. 1, 2016
- [Overall EU GHG Emissions At Lowest Levels Since 1990 — But Not Transport](#), June 15, 2016
- [Particulate Matter a Growing Problem, Despite Aggressive Transport Policies](#), June 9, 2016

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- [National Fuel Efficiency, Car Bans and EV Policies: How They’re Working Together to Drive EV Uptake](#), Apr. 1, 2021
- [Global State of Play: Update on Fuel Efficiency Policy Developments](#), Mar. 22, 2021
- [A Primer on U.S. Fuel Efficiency Trends](#), July 8, 2019
- [40+ Countries Developing Light-Duty Vehicle Fuel Economy Standards](#), May 3, 2019
- [October Report on Global Heavy-Duty Fuel Economy Updated: EU Parliament Vote](#), Nov. 14, 2018
- [Many Countries Setting LDV Fuel Economy Policies](#), Oct. 17, 2018
- [Updated: EU Council Approves 35% CO2 Reduction Target for Cars](#), Oct. 4, 2018
- [Comparing Approaches to Light-Duty Fuel Economy/GHG Standards in the U.S., EU & China](#), Sept. 18, 2018
- [Fuel Efficiency Will Offset Light-Duty Demand Growth More Than Fleet Mix Changes](#), Feb. 6, 2018
- [Record Fuel Economy in 2017 as Pickups & SUVs Now 63% of U.S. Sales](#), Jan. 23, 2018
- [A Brief Update on Global Fuel Economy Initiatives](#), Nov. 13, 2017

- [Sizing Up the Commission's Clean Mobility Package](#), Nov. 9, 2017
- [What You Need to Know about Global Fuel Economy Standards](#), Aug. 10, 2017
- [Let's Make a Deal on Fuel Economy](#), Apr. 11, 2017
- [Proposal Advocates Cap-and-Trade for Fuel Economy](#), Mar. 29, 2017
- [Trump Administration Reopens the Fuel Economy Mid-Term Review](#), Mar. 16, 2017
- [CARB's Mid-Term Review of Fuel Economy Aligns with EPA's](#), Jan. 18, 2017
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- [GFEI: It's Time to Improve Heavy-Duty Fuel Efficiency Globally](#), Oct. 25, 2016
- [EPA & DOT Releases GHG/Fuel Efficiency Rules for Medium- & Heavy-Duty Trucks](#), Aug. 16, 2016
- [A Deep Dive into EPA's TAR on Fuel Economy](#), July 27, 2016
- [The Three Amigos Weigh in on Fuel Efficiency](#), July 1, 2016

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- [Q&A Highlights from "Decarbonizing the Refinery"](#), Jan. 24, 2022
- [The Lull before the Storm? Britain's Clean Energy Transport Transition](#), Oct. 8, 2019
- [The High Cost of Transportation in the United States](#), June 25, 2019
- [Infographic: "IMO 2020's Big Shipping Shake Up"](#), June 12, 2019
- [One Chart: Impact on Oil Demand from Fuel Economy, Biofuels, Natural Gas & EVs](#), Dec. 6, 2018
- [Transport More Efficient in U.S. While Consumption Increases](#), Feb. 15, 2018
- [A Peek at the Transport-Related Findings in IEA's WEO 2017](#), Nov. 20, 2017
- [Interesting Tidbits from IEA's Updated Energy Statistics](#), Oct. 3, 2017
- [100% Renewable Energy Not the Only Way to a Low Carbon Future](#), June 19, 2017
- [BP: Fuel Consumption Increasing, But Mix Progressively Lower in Carbon](#), Jan. 26, 2017
- [ExxonMobil: All Energy Sources Needed to Meet Spiraling Demand](#), Jan. 9, 2017
- [Energy Demand to Peak by 2030; Biofuels & EVs Key to Decarbonizing Transport](#), Oct. 18, 2016
- [Statoil Sees Substantial EV Penetration by 2040](#), June 10, 2016

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- [The Future of Diesel: What about Methanol?](#), Oct. 22, 2019
- [The Future of Diesel: Autogas Will Remain a Niche Fuel](#), Oct. 8, 2019

- [The Future of Diesel: Hydrogen Rides Again](#), Sept. 26, 2019
- [EVs in the EU](#), July 11, 2019
- [Electrofuels — Opportunities and Challenges](#), May 30, 2019
- [Assessing CNG, LNG and Biomethane](#), Apr. 30, 2019
- [Biodiesel & HVO](#), Apr. 14, 2019
- [A Look at OME](#), Feb. 6, 2019
- [What's the Future of Diesel in the EU? \(First in a Series-Gasoline\)](#), Dec. 15, 2018

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- [Gearing Up: Automaker Plans and Strategies for EVs](#), Sept. 22, 2021
- [No Stone Unturned: Review and Analysis of the EU Commission's Fit for 55 Proposals](#), July 28, 2021
- [Looking Behind the Rhetoric: How Some U.S. Cities Are Really Progressing on Climate-Transport Initiatives](#), Jan. 29, 2020
- [The Wrap Up: What U.S. Cities Are Doing to Decarbonize Transport](#), Sept. 10, 2019
- [What U.S. Cities Are Doing to Decarbonize Transport: Focus on EVs and AVs](#), Aug. 8, 2019
- [What U.S. Cities Are Doing to Decarbonize Transport: Focus on Fuels and VMT Reduction](#), Aug. 8, 2019
- [Update on Global Low Carbon Fuel Initiatives: It's Complicated](#), Feb. 12, 2019
- [U.S. Cities Are Eliminating Parking. Why Does It Matter to You?](#), Apr. 9, 2019
- [December Report: Transport, Fuels & Vehicles Grow in Focus at COP24](#), Dec. 20, 2018
- [Can We Decarbonize Heavy-Duty Trucking & Get Away from Diesel?](#), Dec. 13, 2018
- [Presentation: The Big Three Low Carbon Policies & the IEA's World Energy Outlook 2018](#), Nov. 28, 2018
- [Infographic: Visualizing the Global Transition to Green Energy](#), Nov. 1, 2018
- [Climate Warning Labels on Fuel Pumps: A Taste of the Future?](#), Oct. 11, 2018
- [Investment Continues to Grow for EVs, but Not for Biofuels](#), Sept. 13, 2018
- [July Report: Tracking Global EV & Biofuels Investment — a Puzzlingly Difficult Task](#), July 18, 2018
- [Countries Need to Do More to Decarbonize Transport](#), May 9, 2018
- [Policy Options Presented to Scale Up Renewables, Including for Biofuels & EVs, to Help Meet 2C](#), Apr. 15, 2018
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- [Transport Lagging Behind Other Sectors on Renewable Energy, Including Biofuels](#), June 8, 2017

- [My Review of IEA's Clean Energy Progress Report & What It Means for Transport](#), May 31, 2017
- [Global Low Carbon Fuels Issues & What It Means for the Industry](#), Apr. 3, 2017
- [Biofuels & EVs Critical to Decarbonizing Transport](#), Mar. 20, 2017
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- [Megacities & the Future of Fuels & Transport](#), Feb. 27, 2017
- [CO2 from Freight Transport Could Grow 160% by 2050 if Measures Aren't Taken](#), Jan. 31, 2017
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- [To Meet 40% GHG Cuts in California, Transport Will Be Transformed](#), Aug. 30, 2016
- [The European Commission Issues Low Emission Mobility Strategy](#), July 29, 2016
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## **Other Alternative Fuels/Related Topics**

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- [Global State of Play: e-Fuels](#), Oct. 25, 2022
- [Green and Blue Ammonia: Status, Outlook and Supportive Policies](#), Sept. 14, 2022
- [Trend Spotting: Hydrogen Combustion Engines](#), July 26, 2022
- [Can "Green Corridors" Tackle Shipping's Giant Carbon Footprint?](#), Apr. 23, 2022
- [At Least US\\$1.8 Billion in Venture Capital Funding for H2 Technologies](#), July 22, 2022
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- [Hydrogen in Aviation and Shipping: No Silver Bullets](#), June 28, 2022
- [Trend Spotting: The Rise of Global Hydrogen Hubs](#), June 14, 2022
- [Hydrogen FCEV Targets v. Actual Sales: Mind the Gap](#), May 3, 2022
- [The Race to Dominate Is On: National Hydrogen Strategies](#), Apr. 19, 2022
- [Renewable Natural Gas in the EU: Moving on Up?](#), Dec. 8, 2021
- [Update on Global CCS Projects](#), Nov. 2, 2021
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- [U.S. Consumers Say They're Interested in Alternative Fuel Vehicles, but Aren't Buying Them](#), Jan. 4, 2018
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- [A First Look at EPA’s RFS2 Proposal for 2023-2025](#), Dec. 7, 2022
- [Presentation & Recording Available: Parsing the Canadian CFR](#), Nov. 23, 2022
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- [Meat Producers in Argentina Turn Livestock Waste to Energy](#), Apr. 12, 2022
- [RNG in the U.S.: Net Negative Tailwinds Propel Growth](#), Mar. 22, 2022
- [On-Demand Webinar: U.S. State Low Carbon Fuel Policies](#), Mar. 8, 2022
- [U.S. State Low Carbon Fuel Initiatives: In the Slow Lane](#), Feb. 23, 2022
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- [RNG in the EU: A Look at Member State Developments](#), Jan. 25, 2022
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- [Global State of Play: EV Infrastructure](#), June 15, 2021
- [Putting It in Context: Global Low Carbon Fuel Programs](#), May 27, 2021
- [What Could Future LCFS Revisions Entail?](#), May 4, 2021
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- [Ready for Take Off: Sustainable Aviation Fuels](#), Nov. 18, 2020
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- [Hydrogen Production Pathways to Support Decarbonization](#), Oct. 20, 2020
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- [NGOs Recommend Actions U.S. Cities Can Take to Decarbonize Transport, but They Don’t Include Low Carbon Fuels](#), Nov. 22, 2017
- [Just Four Policies Can Reduce U.S. Transport Emissions 45%](#), Oct. 26, 2017

- [How to Fight Climate Change without Washington? An LCFS.](#), Feb. 23, 2017

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- [How Far Are We From Phasing Out Coal?](#), June 7, 2022
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- [Mapped: Solar and Wind Power by Country](#), May 11, 2022
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- [Putting EV Valuations Into Perspective](#), Mar. 10, 2022
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- [New Batteries Could Share a Unique Bond with Milk and Kitchen Foil](#), Feb. 12, 2022
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- [BYD and the Chinese NEV Market](#), Apr. 9, 2019
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- [Is the Oil Industry Really Impacted by Norway's EV Transition?](#), May 31, 2018
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