



transportenergy
strategies

Published Reports and Posts

Transport Energy Outlook

February 2021

Tammy Klein
Founder & CEO

tammy@transportenergystrategies.com / +1.703.625.1072 (M)

Autonomous Mobility, Mobility as a Service (MaaS)

- 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)

- 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

Biofuels

- 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

Car Bans

- 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

Conventional Fuels

- November Report: What's the Future of Diesel in the EU? (First in a Series), Nov. 15, 2018
- 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

The Drivers: Air Pollution & Climate Change

- 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
- Why Are Experts Calling for a Green Stimulus?, Apr. 8, 2020
- Soil Carbon Is a Valuable Resource, but All Soil Carbon Is Not Created Equal, Feb. 27, 2020
- Ranked: The Countries with the Most Sustainable Energy Policies, Nov. 18, 2019
- Where Will the Top 10 Cities Be in 2035?, Nov. 11, 2019
- The 8 Ways Urban Demographics Are Changing, Aug. 19, 2019
- The World's Busiest Ports, Aug. 5, 2019
- China Uniquely Placed to Green Shipping, July 18, 2019
- Rebuttal: Yes, We Do Have an "Existential Crisis" with Climate Change, June 7, 2019
- Do We Have an "Existential Crisis" with Climate Change?, June 4, 2019
- London's Ultra Low Emission Zone: Not So Low Emission?, Nov. 7, 2018
- Now What? GHGs, Air Pollution from Transport in EU Higher Than Ever, Feb. 6, 2018
- Natural Climate Solutions Have Same Impact as Taking Millions of Vehicles Off the Road, Oct. 27, 2017
- The Lancet: Air Pollution Kills 6.5 Million Every Year, Motor Vehicles a Major Cause, Oct. 24, 2017
- California Cap & Trade Extended, What Does It Mean for Fuels?, July 20, 2017
- 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
- Global CO2 Emissions Flat in 2016, though the Economy Grew, Mar. 23, 2017
- 8 of the World's Largest Oil Companies Responsible for 20% of GHGs, Mar 9, 2017
- 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

Fuel Economy/GHG Standards for Vehicles

- 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
- New Analysis Shows That Fuel Economy Policies Work – But More Is Needed, Jan. 10, 2017
- Global Automakers: EPA Should Withdraw Fuel Economy Proposed Determination, Dec. 7, 2016
- EPA Races to Finalize Fuel Economy Standards, Dec. 1, 2016
- China's EV Push Is Hurting Fuel Economy, Nov. 23, 2016
- 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

Fuel & Energy Demand

- 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

The Future of Diesel in the EU Series (2019)

- The Wrap Up: The Future of Diesel Series, Nov. 20, 2019

- 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

Global Low Carbon Transport

- 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
- Assessing Current & Future Global Initiatives on Fuels & Vehicles, Nov. 22, 2017
- What Cities Are Doing to Implement the Paris Agreement and How It Affects Fuels & Vehicles, Sept. 28, 2017
- 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
- Global Roadmap Aims for Decarbonization of Transport, Mar. 1, 2017

- 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
- Why Should You Care about LCFV Initiatives Anyway?, Nov. 23, 2016
- Summary of Global Low Carbon Fuel & Vehicle Initiatives, Nov. 22, 2016
- Trump or No Trump: Obama's Vision for U.S. Decarbonization by 2050, Nov. 16, 2016
- Huge Gap between Climate Commitments and Policy, Including Transport, Sept. 5, 2016
- 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
- Biofuels, Fuel Economy & EVs Needed for Low Carbon Mobility, June 7, 2016

Low Carbon Fuels

- Big Dreams, Big Schemes: Countries' Plans for Hydrogen in Transport, Dec. 15, 2020
- Ready for Take Off: Sustainable Aviation Fuels, Nov. 18, 2020
- Is Incentivizing Better Farming Practices Key to Net Negative Fuel CI?, Nov. 4, 2020
- Hydrogen Production Pathways to Support Decarbonization, Oct. 20, 2020
- Update on Brazil's RenovaBio Program, Sept. 18, 2020
- Oil Company Strategies to Decarbonize Fuels, Sept. 16, 2020
- Update on RNG/Biomethane in the U.S. and Europe, Aug. 20, 2020
- A Roadmap to the Ammonia Economy?, May 11, 2020
- Methanol as a "Future-Proof" Fuel, Apr. 1, 2020
- August-September Report: Global Low Carbon Fuel Frameworks, Sept. 5, 2018
- Low Carbon Fuels Will Be Needed to Decarbonize EU Transport, June 28, 2017
- 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

Other Alternative Fuels

- Four Clear Signs that Fuel Cells Will Power Commercial Vehicles, Oct., 1, 2017
- Infographic on the Evolution of Hydrogen: from the Big Bang to Fuel Cells, Apr. 24, 2019
- U.S. Consumers Say They're Interested in Alternative Fuel Vehicles, but Aren't Buying Them, Jan. 4, 2018
- Hydrogen Could Account for 18% of Energy Demand by 2050 & a Third of That in Transport, Nov. 16, 2017
- ARPA-E's REFUEL Research Program Focusing on Carbon-Neutral Fuels, Oct. 9, 2017
- Alternative Fuels Key to Reducing GHGs, Oil Demand from Heavy-Duty Trucks, July 17, 2017
- Hydrogen Will Be A "Key Solution" to Decarbonize Transport, Jan. 19, 2017

- Hydrogen Is Back in the Spotlight, Sept. 12, 2016

Vehicle Technology

- Tires Not Tailpipe: Why Low Tailpipe Particle Emissions May Now Be Dominated by Tire Wear, Mar. 2, 2020
- Plug-in Hybrids without Behavioral Compliance Risk Failure, Nov. 4, 2019
- Growing Preference for SUVs Challenges Emissions Reductions in Passenger Car Market, Oct. 18, 2019
- Horizon Technologies for the ICEV, May 16, 2019
- Corning's Global Vehicle Emissions, Engine Efficiency & Emission Control Review, May 1, 2018
- It'll Be a Do-Over on the U.S. 2022-2025 GHG Vehicle Standards, Apr. 4, 2018
- The ICEV Might Be in China Longer Than We Think, Mar. 20, 2018
- Hybrids & Plug-in Hybrids Come Out Ahead in C2G Analysis, Feb. 20, 2018
- Gasoline Vehicle Sales Overtaking Diesels in EU-15: The Rise of the Mild Hybrid?, Oct. 12, 2017
- Can We Have Carbon-Neutral ICEVs?, Sept. 7, 2017
- The Autos Look to Turbocharging & High Octane, July 8, 2016
- Nissan's Ethanol & Hydrogen Fuel Cell, June 17, 2016

Zero Emission Vehicles/Electric Vehicles

- U.S. State and Local EV Public Charging Policies, Dec. 1, 2020
- Automaker Strategies for EVs and ICEVs, July 28, 2020
- Zero Emission MDV and HDVs? Yes, It's Happening., June 6, 2020
- Cheaper, Lighter and More Energy-Dense: The Promise of Lithium-Sulphur Batteries, June 6, 2020
- China's Energy Storage Boom Falters, May 5, 2020
- Reviewing the 2019 Global EV Projections, Feb. 12, 2020
- Can China Electrify All New Passenger Cars by 2030?, Sept. 14, 2019
- The Future of EVs in the U.S.: A Base Case Projection to 2040, Aug. 19, 2019
- Where Are Electric Vehicles Manufactured?, July 31, 2019
- National EV Policies around the World, June 26, 2019
- BYD and the Chinese NEV Market, Apr. 9, 2019
- Is Norway Really a Model EV Market?, Apr. 4, 2019
- Batteries for EVs: Breakthroughs & Challenges, Mar. 25, 2019
- 2018 EV Projections Analysis and Update on Automaker Investments, Jan. 15, 2019
- Infographic: EU Supply & Demand Balances for Cobalt in the Transition to Electric Mobility, Dec. 11, 2018
- The U.S. Electric Vehicle Market Revs Up, Nov. 13, 2018
- Battery Megafactory Forecast: 400% Increase in Capacity to 1 TWh by 2028, Oct. 30, 2018

- Massive EV Adoption Would Cut Pollution in Colombia & Latin America, Oct. 3, 2018
- Visualizing the Rise of the Electric Vehicle, Sept. 28, 2018
- The EV Scorecard — Assessing Current and Future Markets, June 21, 2018
- Is the Oil Industry Really Impacted by Norway’s EV Transition?, May 31, 2018
- Autos Collectively Plan Over \$200 Billion in Investments on EVs by 2025, Apr. 9, 2018
- Cobalt & Lithium Supplies for EVs May Be At Risk, Mar. 28, 2017
- EV Sales and Infrastructure Growing in the U.S. While Battery Prices Drop, Feb. 23, 2018
- Why Reaching 100% ZEVs in the EU by 2050 Is “Not Going to Happen”, Jan. 12, 2018
- The EV Scorecard – Assessing Current and Future Markets, Part 1, Dec. 14, 2017
- No, Really, EVs Are Greener Than ICEVs, Nov. 20, 2017
- Benchmarking All the EV Outlook Studies: What Do We Know?, Nov. 20, 2017
- Guess Who’s Buying ZEVs in California?, Sept. 13, 2017
- EV Sales Projections Keep Trending Up: What It Means for the Fuels Industries, July, 20, 2017
- Outlook for Electrification Globally, June 13, 2017
- BEVs Are Cheaper than Gasoline Vehicles, but Only with Incentives, Feb. 9, 2017
- Why EVs “Aren’t Always Environmentally Sound”, Jan. 12, 2017
- Are Non-Exhaust Emissions from EVs a “Sleeping Giant Issue”?, Dec. 28, 2016
- Quebec to Implement a ZEV Standard, Nov. 3, 2016