

SPRINGER BRIEFS IN ENERGY  
ENERGY ANALYSIS

Alice J. Friedemann

# When Trucks Stop Running Energy and the Future of Transportation

 Springer

# When Trucks Stop Running Transportation

**Raffaela Di Napoli**



## **When Trucks Stop Running Transportation:**

*When Trucks Stop Running* A.J. Friedemann, 2015-12-09 In lively and engaging language this book describes our dependence on freight transport and its vulnerability to diminishing supplies and high prices of oil. Ships, trucks and trains are the backbone of civilization, hauling the goods that fulfill our every need and desire. Their powerful, highly efficient diesel combustion engines are exquisitely fine-tuned to burn petroleum-based diesel fuel. These engines and the fuels that fire them have been among the most transformative yet disruptive technologies on the planet. Although this transportation revolution has allowed many of us to fill our homes with global goods even a past emperor would envy our era of abundance and the freight transport system in particular is predicated on the affordability and high energy density of a single fuel, oil. This book explores alternatives to this finite resource, including other liquid fuels, truck and locomotive batteries, and utility-scale energy storage technology and various forms of renewable electricity to support electrified transport. Transportation also must adapt to other challenges. Threats from climate change, financial busts, supply chain failure, and transportation infrastructure decay. Robert Hirsch, who wrote the *Peaking of World Oil Production* report for the U.S. Department of Energy in 2005, said that planning for peak world production must start at least 10 if not 20 years ahead of time. What little planning exists focuses mainly on how to accommodate 30 percent more economic growth while averting climate change, ignoring the possibility that we are at or near the end of growth. Taken for granted, the modern transportation system will not endure forever. The time is now to take a realistic and critical look at the choices ahead and how the future of transportation may unfold.

Life after Fossil Fuels Alice J. Friedemann, 2021-03-29 This book is a reality check of where energy will come from in the future. Today our economy is utterly dependent on fossil fuels. They are essential to transportation, manufacturing, farming, electricity, and to make fertilizers, cement, steel, roads, cars, and half a million other products. One day, sooner or later, fossil fuels will no longer be abundant and affordable. Inevitably, one day, global oil production will decline. That time may be nearer than we realize. Some experts predict oil shortages as soon as 2022 to 2030. What then are our options for replacing the fossil fuels that turn the great wheel of civilization? Surveying the arsenal of alternatives: wind, solar, hydrogen, geothermal, nuclear, batteries, catenary systems, fusion, methane hydrates, power-to-gas, wave, tidal power, and biomass, this book examines whether they can replace or supplement fossil fuels. The book also looks at substitute energy sources from the standpoint of the energy users. Manufacturing, which uses half of fossil fuels, often requires very high heat, which in many cases, electricity can't provide. Industry uses fossil fuels as a feedstock for countless products and must find substitutes. And as detailed in the author's previous book *When Trucks Stop Running*, Energy and the Future of Transportation, ships, locomotives, and heavy-duty trucks are fueled by diesel. What can replace diesel? Taking off the rose-colored glasses, author Alice Friedemann analyzes our options. What alternatives should we deploy right now? Which technologies merit further research and development? Which are mere wishful thinking that, upon careful scrutiny, dematerialize before our eyes? Fossil fuels have allowed billions of us to live

like kings Fueled by oil coal and natural gas we changed the equation constraining the carrying capacity of our planet As fossil fuels peak and then decline will we fall back to Earth Are there viable alternatives **Report of the Board of Transport Commissioners for Canada, for the Year Ended ...** Board of Railway Commissioners for Canada, Board of Transport Commissioners for Canada, 1928 **Nevada's Teamsters, Truckers & Truck Stops** Jerry Aaron, 2015-06-01 This is a chronicle of trucking in the Silver State begins with the Teamsters of the late 1800s and follows the transportation trail as it progressed from bullwhacker to throttle jockey It provides an insight into the building of Nevada based trucking companies and is a narrative of early trucking The book will place the reader in the cab of a trucking time machine that covers over a hundred and fifty years of Nevada's transportation industry *Motor Transport*, 1923 How Everything Can Collapse Pablo Servigne, Raphaël Stevens, 2020-03-27 What if our civilization were to collapse Not many centuries into the future but in our own lifetimes Most people recognize that we face huge challenges today from climate change and its potentially catastrophic consequences to a plethora of socio political problems but we find it hard to face up to the very real possibility that these crises could produce a collapse of our entire civilization Yet we now have a great deal of evidence to suggest that we are up against growing systemic instabilities that pose a serious threat to the capacity of human populations to maintain themselves in a sustainable environment In this important book Pablo Servigne and Raphaël Stevens confront these issues head on They examine the scientific evidence and show how its findings often presented in a detached and abstract way are connected to people's ordinary experiences joining the dots as it were between the Anthropocene and our everyday lives In so doing they provide a valuable guide that will help everyone make sense of the new and potentially catastrophic situation in which we now find ourselves Today utopia has changed sides it is the utopians who believe that everything can continue as before while realists put their energy into making a transition and building local resilience Collapse is the horizon of our generation But collapse is not the end it's the beginning of our future We will reinvent new ways of living in the world and being attentive to ourselves to other human beings and to all our fellow creatures Engineering Index, 1929 **Manual of the Motor Transport Corps** United States. Army. Motor Transport Corps, 1919 **Manual of the Motor Transport Corps** United States. Army. American Expeditionary Forces, 1917-1920. Motor Transport Corps, United States. Army. Motor Transport Corps, 1919 **Bus & Truck Transport**, 1927 **Petroleum Age**, 1925 ICC Register, 1987 *Transit Journal*, 1897 **Power Wagon**, 1920 **Ice and Refrigeration**, 1926 *Trans-Cold Express, Inc. V. Arrow Motor Transit, Inc*, 1970 **Go - Transport Times of the West**, 1978 *Operation & Maintenance*, 1910 Contractors and Engineers Monthly, 1920 **Central Station**, 1924

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