

HIDDEN ENVIRONMENTAL COSTS OF AN EV



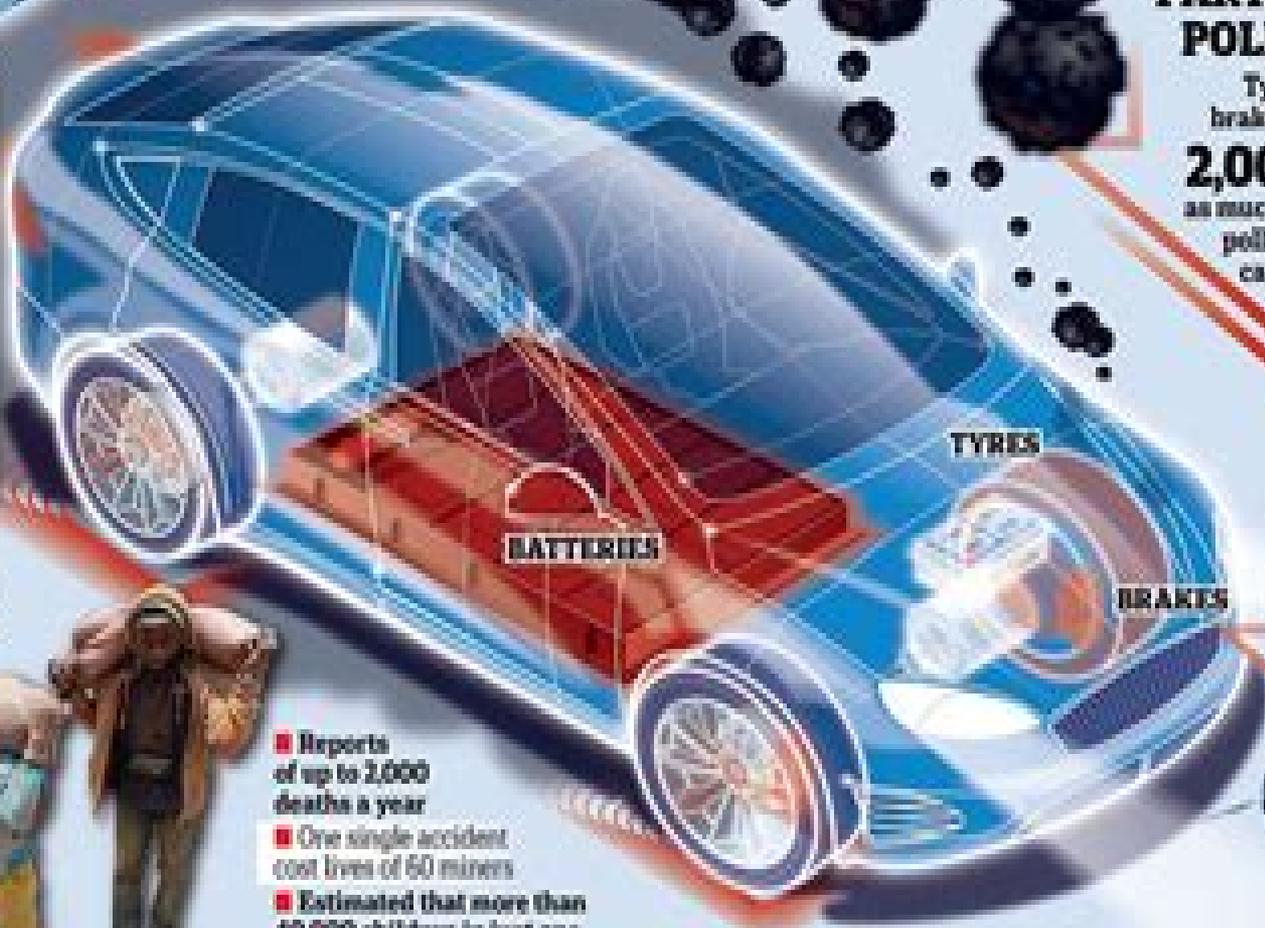
50,000 miles
 Or TWICE around the Equator is the distance that electric cars have to travel to match the carbon footprint of a petrol model because of the massive amount of energy consumed during the production process



PARTICULATE POLLUTION

Tyres and brakes produce **2,000 times** as much particulate pollution as a car engine

A typical electric car puts 2.24 times as much stress on the road surface as an equivalent petrol car, meaning existing potholes face greater damage



BATTERY MANUFACTURE

A typical electric car battery is made up of:

- 8kg lithium
- 35kg manganese
- 6-12 kg cobalt

THE HUMAN COST

■ Around 60-70% of the global supply of cobalt comes from the Democratic Republic of the Congo where it is mined in difficult and dangerous conditions, often by child labourers



- Reports of up to 2,000 deaths a year
- One single accident cost lives of 60 miners
- Estimated that more than 40,000 children in just one province work in cobalt mines



Cars An Environmental Challenge

**Library of Congress. Environment and
Natural Resources Policy Division**

Cars An Environmental Challenge:

Cars--an Environmental Challenge Terri Willis,Wallace B. Black,1992 Discusses the environmental damage and safety problems associated with the internal combustion engine with an emphasis on emissions and air pollution and examines various solutions and alternatives to the situation *Human Settlements: The Environmental Challenge* United Nations,1974-06-18

The Environmental Challenge of the 1990s ,1990 **Environmental Issues in Automotive Industry** Paulina Golinska,2013-09-03 The automotive industry is one of the most environmental aware manufacturing sectors Product take back regulations influence design of the vehicles production technologies but also the configuration of automotive reverse supply chains The business practice comes every year closer to the closed loop supply chain concept which completely reuses remanufactures and recycles all materials The book covers the emerging environmental issues in automotive industry through the whole product life cycle Its focus is placed on a multidisciplinary approach It presents viewpoints of academic and industry personnel on the challenges for implementation of sustainable police in the automotive sector

China's Environmental Challenges Judith Shapiro,2013-04-17 China s huge environmental challenges are significant for us all They affect not only the health and well being of China but the very future of the planet In this trailblazing book noted China specialist and environmentalist Judith Shapiro investigates China s struggle to achieve sustainable development against a backdrop of acute rural poverty and soaring middle class consumption Using five core analytical concepts to explore the complexities of this struggle the implications of globalization the challenges of governance contested national identity the evolution of civil society and problems of environmental justice and equity Shapiro poses a number of pressing questions Do the Chinese people have the right to the higher living standards enjoyed in the developed world Are China s environmental problems so severe that they may shake the government s stability legitimacy and control To what extent are China s environmental problems due to patterns of Western consumption And in a world of increasing limits on resources and pollution sinks is it even possible to build an equitable system in which people enjoy equal access to resources without taking them from successive generations from the poor or from other species China and the planet are at a pivotal moment the path towards a more sustainable development model is still open But as Shapiro persuasively argues making this choice will require humility creativity and a rejection of business as usual The window of opportunity will not be open much longer Chapter 1 The Big Picture is available online

Environmental Problems/behavioral Solutions John D. Cone,Steven C. Hayes,1980 A 1984 exploration of the relation between physical environment and human behaviour

Environmental Challenges in the Baltic Region Ranjula Bali Swain,2017-09-04 This book explores environmental challenges in the Baltic region from an economic perspective Featuring contributions from regional experts from Nordic Baltic and Eastern European countries it addresses the response to eutrophication caused by increased loads of nutrients to the sea from agriculture wastewater industry and traffic and cost effective solutions to reach the Baltic Sea Action Plan BSAP

targets set up through the Helsinki Commission HELCOM Contributions also explore the environmental impacts of rural landscape change during the post communist period in the Baltic Sea region and a review of the ex post evaluations of the costs and benefits generated by Baltic Sea nutrient abatement policies Public policies towards marine protection wind power establishment and attitudes to paying for environmental protection environmental resilience and the international cooperation in the Baltic region are also discussed Technology Education and Environmental Issues in Nigeria Nigerian Association of Teachers of Technology. Conference,2002 *Two Billion Cars* Daniel Sperling,Deborah Gordon,2009-01-13 Today there are over a billion vehicles in the world and within twenty years the number will double largely a consequence of China's and India's explosive growth Given that greenhouse gases are already creating havoc with our climate and that violent conflict in unstable oil rich nations is on the rise will matters only get worse Or are there hopeful signs that effective realistic solutions can be found Blending a concise history of cars and their impact on the world leading transportation experts Daniel Sperling and Deborah Gordon explain how we arrived at this state and what we can do about it Sperling and Gordon assign blame squarely where it belongs on the auto industry short sighted government policies and consumers They explore such solutions as getting beyond the gas guzzler monoculture re inventing cars searching for low carbon fuels and more Promising advances in both transportation technology and fuel efficiency together with shifts in traveler behavior they suggest offer us a way out of our predicament The authors conclude that the two places that have the most troublesome emissions problems California and China are the most likely to become world leaders on these issues Arnold Schwarzenegger's enlightened embrace of eco friendly fuel policies which he discusses in the foreword and China's forthright recognition that it needs far reaching environmental and energy policies suggest that if they can tackle the issue effectively and honestly then there really is reason for hope Updated with a new afterword that sheds light on the profound changes in the global economy in the last year *Two Billion Cars* makes the case for why and how we need to transform transportation now more than ever Authoritatively prescriptive Tom Vanderbilt Wilson Quarterly Provocative and pleasurable far seeing and refreshing fact based and yet a page turner global in scope but rooted in real places The authors make a convincing case that smart consumers driving smart electric drive cars can find the critical path to a safer planet Robert Socolow Princeton University In this insightful and persuasive book Sperling and Gordon highlight one of the biggest environmental challenges of this century two billion cars They rightly contend that we cannot avert the worst of global warming without making our cars cleaner and petroleum free Luckily the authors also offer a roadmap for navigating this problem that is both visionary and achievable Frances Beinecke President Natural Resources Defense Council **Environmental Challenges** C. K. Varshney,1993 Contributed articles **Environmental Issues and Sustainable Futures** Michael Marien,1996 This guidebook will change the way you think about environmental issues and the need for a sustainable future It knits together 450 abstracts selected from recent issues of *Future Survey* and *Future Survey Annual* The essential books and reports reviewed here were written

by environmentalists futurists social scientists biologists journalists and politicians The categories are environmental issues toward sustainability and politics and planning The guide has five purposes 1 to record and highlight important books and reports on environment and sustainability published in recent years 2 to provide an illuminating taxonomy that suggests new pathways for action and analysis 3 to sketch a map of who says what about the most important environmental issues and related policy proposals 4 to offer guidance for the beginning student 5 to demonstrate the urgency of environmental issues and the worldwide quest for a sustainable future

California. Court of Appeal (1st Appellate District). Records and Briefs California (State)., Consolidated Case s A054720 **Environmental Challenges of the President's Energy Plan** Library of Congress. Environment and Natural Resources Policy Division,1977 **Our Shared Environment** Robin Twite,Robin Menczel,1996 **Official Journal of the European Communities** ,1999 Guide to Florida Environmental Issues and Information Linda A. Lord,1993 *Before Earth Day* Karl Boyd Brooks,2009 Dispels the conventional belief that American environmental law was a product of the 1970s finding instead that its origins go back to New Deal and Cold War policies and traces the dramatic post war shift in the way Americans viewed the natural environment *Vehicle, Mechatronics and Information Technologies* X.D. Yu,2013-08-30 Selected peer reviewed papers from the 2013 International Conference on Vehicle Mechanical Engineering and Information Technology VMEIT 2013 August 17 18 2013 Zhengzhou Henan China Town & Country Planning ,2001 *Environmental Issues and the European Motor Industry* Arthur Way,Nigel Wemyss,1995

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