

# **2 reasons why environmental science is important**

## **2 Reasons Why Environmental Science is Important: A Deep Dive into Sustainability and Human Health**

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Description: This article explores two critically important reasons why environmental science is vital for the future of humanity: the preservation of ecosystem services and the protection of human health. We will delve into the intricate connections between environmental degradation and its impact on both the natural world and human well-being, underscoring the urgent need for a strong foundation in environmental science. Understanding 2 reasons why environmental science is important is crucial for informed decision-making and the implementation of effective solutions to environmental challenges.

Keywords: 2 reasons why environmental science is important, environmental science importance, environmental sustainability, human health, ecosystem services, climate change, pollution, resource management, environmental protection.

### **1. Preserving Essential Ecosystem Services: A Cornerstone of Human Well-being (One of the 2 Reasons Why Environmental Science is**

## Important)

Ecosystem services are the countless benefits that humans derive from the natural environment. These services are often taken for granted, but they underpin our very existence. Understanding 2 reasons why environmental science is important starts with grasping the critical role of these services. Environmental science provides the framework for understanding, quantifying, and ultimately protecting these invaluable resources. These services include:

**Clean Water:** Healthy ecosystems, such as forests and wetlands, act as natural filters, purifying water and making it safe for human consumption. Environmental science helps us understand the processes involved in water purification and develop strategies to protect water sources from pollution. The study of 2 reasons why environmental science is important reveals the fragility of this service and the need for sustainable water management practices.

**Clean Air:** Forests, oceans, and other natural environments absorb pollutants from the atmosphere, improving air quality. Environmental science reveals the mechanisms by which this occurs and helps us understand the consequences of air pollution on human health and the environment. This underscores the importance of protecting and restoring natural ecosystems to maintain clean air, a crucial element in addressing 2 reasons why environmental science is important.

**Pollination:** Many crops rely on insects, birds, and other animals for pollination. Habitat loss and pesticide use threaten these pollinators, impacting food production. Environmental science provides tools to assess the impact of human activities on pollinator populations and develop strategies to protect them. Understanding the connection between pollinator health and food security highlights 2 reasons why environmental science is important.

**Climate Regulation:** Forests and oceans play a crucial role in regulating the global climate by absorbing carbon dioxide and other greenhouse gases. Environmental science studies the impact of deforestation and other human activities on climate change and develops strategies for mitigating climate change. This understanding directly addresses 2 reasons why environmental science is

important.

**Soil Fertility:** Healthy soils are essential for food production. Environmental science studies the factors that affect soil health, such as erosion, nutrient depletion, and pollution. Understanding soil health's crucial role emphasizes 2 reasons why environmental science is important.

The degradation of these ecosystem services through deforestation, pollution, and climate change has profound consequences for human societies. Environmental science provides the knowledge base needed to develop sustainable practices that protect and restore these vital services, making it one of the 2 reasons why environmental science is important.

## **2. Protecting Human Health: A Direct Link to Environmental Quality (Another of the 2 Reasons Why Environmental Science is Important)**

The second compelling reason for the importance of environmental science is its direct link to human health. Environmental pollution and degradation pose significant threats to human well-being, impacting physical and mental health in numerous ways. Understanding 2 reasons why environmental science is important requires a close examination of this connection.

**Air Pollution:** Air pollution from industrial emissions, vehicle exhaust, and other sources causes respiratory illnesses, cardiovascular disease, and even cancer. Environmental science helps us understand the sources and impacts of air pollution and develop strategies for reducing emissions. This demonstrates one of the key 2 reasons why environmental science is important.

**Water Pollution:** Contaminated water sources can cause a wide range of waterborne diseases, including cholera, typhoid fever, and diarrhea. Environmental science helps us monitor water quality, identify pollution sources, and develop strategies for water treatment and pollution control. This highlights a key aspect of 2 reasons why environmental science is important.

Food Contamination: Pesticides, heavy metals, and other contaminants can enter the food chain, impacting human health. Environmental science helps us understand the pathways of contamination and develop strategies for reducing exposure to harmful substances. This underscores one of the 2 reasons why environmental science is important.

Climate Change Impacts: Climate change is increasing the frequency and intensity of extreme weather events, such as heat waves, floods, and droughts, posing significant risks to human health and safety. Environmental science helps us understand the health impacts of climate change and develop strategies for adaptation and mitigation. This crucial aspect explains 2 reasons why environmental science is important.

Environmental science plays a critical role in identifying and mitigating these threats to human health, offering crucial information for public health interventions and policy decisions. This directly addresses 2 reasons why environmental science is important.

Summary: This article argues that environmental science is critically important for two primary reasons: the preservation of essential ecosystem services and the protection of human health. The article details how the degradation of ecosystems directly impacts human well-being, impacting access to clean water, air, and food, as well as exacerbating climate change and increasing the risk of various diseases. The article emphasizes that environmental science provides the knowledge and tools needed to address these challenges, making sustainable practices and policy decisions possible. Understanding 2 reasons why environmental science is important is crucial for securing a healthy and sustainable future.

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Editor: Dr. David Chen, PhD, Environmental Health, Editor-in-Chief of Environmental Science & Technology. Dr. Chen has over 30 years of experience in environmental health research and editing.

#### Conclusion:

In conclusion, the importance of environmental science cannot be overstated. The two reasons outlined—the preservation of essential ecosystem services and the protection of human health—are inextricably linked and underscore the urgent need for a deeper understanding of our planet's intricate systems. Investing in environmental science research, education, and policy is an investment in our collective future, ensuring a healthy planet and a thriving society for generations to come. The compelling argument for understanding 2 reasons why environmental science is important should serve as a call to action for individuals and governments alike.

#### FAQs:

1. What are some career paths in environmental science? Environmental scientists can work in government agencies, research institutions, non-profit organizations, and private companies, pursuing roles like environmental consultant, researcher, policy analyst, or educator.

1. How can I contribute to environmental protection? You can reduce your carbon footprint, conserve water and energy, support sustainable businesses, participate in environmental advocacy, and educate others about environmental issues.

1. What are some major environmental challenges facing the world today? Climate change,

biodiversity loss, pollution (air, water, and soil), deforestation, and resource depletion are among the most pressing challenges.

1. What is the difference between environmental science and environmentalism? Environmental science is the scientific study of the environment, while environmentalism is an advocacy movement focused on protecting the environment.

1. How is environmental science used in policy making? Environmental scientists provide data and analysis to inform policy decisions related to environmental protection and resource management.

1. What are some examples of sustainable practices? Using renewable energy, reducing waste, conserving water, supporting sustainable agriculture, and choosing eco-friendly products are examples of sustainable practices.

1. How can I learn more about environmental science? You can take courses in environmental science, read books and articles on the topic, attend workshops and conferences, and follow environmental scientists and organizations online.

1. What is the role of technology in environmental science? Technology plays a crucial role in

monitoring environmental conditions, developing new solutions for environmental problems, and communicating environmental information.

1. How can I get involved in environmental research? You can volunteer with environmental organizations, participate in citizen science projects, or pursue higher education in environmental science to conduct research.

#### Related Articles:

1. The Impact of Climate Change on Ecosystem Services: This article explores the cascading effects of climate change on essential ecosystem services and the resulting implications for human well-being.
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1. The Role of Biodiversity in Maintaining Ecosystem Resilience: This article explores the importance of biodiversity in maintaining the stability and resilience of ecosystems in the face of environmental change.

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1. The Future of Environmental Science and its Role in Shaping a Sustainable World: This article explores the future direction of environmental science and its crucial role in building a sustainable future for all.

**2 reasons why environmental science is important: Grand Challenges in Environmental**

Sciences National Research Council, Oversight Commission for the Committee on Grand Challenges in Environmental Sciences, Committee on Grand Challenges in Environmental Sciences, 2001-05-24 Scientists have long sought to unravel the fundamental mysteries of the land, life, water, and air that surround us. But as the consequences of humanity's impact on the planet become increasingly evident, governments are realizing the critical importance of understanding these environmental systems—and investing billions of dollars in research to do so. To identify high-priority environmental science projects, Grand Challenges in Environmental Sciences explores the most important areas of research for the next generation. The book's goal is not to list the world's biggest environmental problems. Rather it is to determine areas of opportunity that—with a concerted investment—could yield significant new findings. Nominations for environmental science's grand challenges were solicited from thousands of scientists worldwide. Based on their responses, eight major areas of focus were identified—areas that offer the potential for a major scientific breakthrough of practical importance to humankind, and that are feasible if given major new funding. The book further pinpoints four areas for immediate action and investment.

**2 reasons why environmental science is important: Physics in a New Era** National Research Council, Division on Engineering and Physical Sciences, Board on Physics and Astronomy, Physics Survey Overview Committee, 2001-07-15 Physics at the beginning of the twenty-first century has reached new levels of accomplishment and impact in a society and nation that are changing rapidly. Accomplishments have led us into the information age and fueled broad technological and economic development. The pace of discovery is quickening and stronger links with other fields such as the biological sciences are being developed. The intellectual reach has never been greater, and the questions being asked are more ambitious than ever before. Physics in a New Era is the final report of the NRC's six-volume decadal physics survey. The book reviews the frontiers of physics research, examines the role of physics in our society, and makes recommendations designed to strengthen physics and its ability to serve important needs such as national security, the economy, information technology, and education.

**2 reasons why environmental science is important: Science for Environmental Protection** National Research Council, Division on Earth and Life Studies, Board on Environmental Studies and Toxicology, Committee on Science for EPA's Future, 2012-12-21 In anticipation of future environmental science and engineering challenges and technologic advances, EPA asked the National Research Council (NRC) to assess the overall capabilities of the agency to develop, obtain, and use the best available scientific and technologic information and tools to meet persistent, emerging, and future mission challenges and opportunities. Although the committee cannot predict with certainty what new environmental problems EPA will face in the next 10 years or more, it worked to identify some of the common drivers and common characteristics of problems that are

likely to occur. Tensions inherent to the structure of EPA's work contribute to the current and persistent challenges faced by the agency, and meeting those challenges will require development of leading-edge scientific methods, tools, and technologies, and a more deliberate approach to systems thinking and interdisciplinary science. Science for Environmental Protection: The Road Ahead outlines a framework for building science for environmental protection in the 21st century and identified key areas where enhanced leadership and capacity can strengthen the agency's abilities to address current and emerging environmental challenges as well as take advantage of new tools and technologies to address them. The foundation of EPA science is strong, but the agency needs to continue to address numerous present and future challenges if it is to maintain its science leadership and meet its expanding mandates.

**2 reasons why environmental science is important:** Advances in Environmental Sciences Anil Kumar Tripathi, Dr. A. K. Srivastava, Surendra Nath Pandey, 1993 Contributed research papers.

**2 reasons why environmental science is important: Planetary Health** Samuel Myers, Howard Frumkin, 2020-08-13 Human health depends on the health of the planet. Earth's natural systems—the air, the water, the biodiversity, the climate—are our life support systems. Yet climate change, biodiversity loss, scarcity of land and freshwater, pollution and other threats are degrading these systems. The emerging field of planetary health aims to understand how these changes threaten our health and how to protect ourselves and the rest of the biosphere. Planetary Health: Protecting Nature to Protect Ourselves provides a readable introduction to this new paradigm. With an interdisciplinary approach, the book addresses a wide range of health impacts felt in the Anthropocene, including food and nutrition, infectious disease, non-communicable disease, dislocation and conflict, and mental health. It also presents strategies to combat environmental changes and its ill-effects, such as controlling toxic exposures, investing in clean energy, improving urban design, and more. Chapters are authored by widely recognized experts. The result is a comprehensive and optimistic overview of a growing field that is being adopted by researchers and universities around the world. Students of public health will gain a solid grounding in the new challenges their profession must confront, while those in the environmental sciences, agriculture, the design professions, and other fields will become familiar with the human consequences of planetary changes. Understanding how our changing environment affects our health is increasingly critical to a variety of disciplines and professions. Planetary Health is the definitive guide to this vital field.

**2 reasons why environmental science is important:** *U.S. Health in International Perspective* National Research Council, Institute of Medicine, Board on Population Health and Public Health Practice, Division of Behavioral and Social Sciences and Education, Committee on Population, Panel on Understanding Cross-National Health Differences Among High-Income Countries, 2013-04-12 The United States is among the wealthiest nations in the world, but it is far from the healthiest. Although life expectancy and survival rates in the United States have improved dramatically over the past century, Americans live shorter lives and experience more injuries and illnesses than people in other high-income countries. The U.S. health disadvantage cannot be attributed solely to the adverse health status of racial or ethnic minorities or poor people: even highly advantaged Americans are in worse health than their counterparts in other, peer countries. In light of the new and growing evidence about the U.S. health disadvantage, the National Institutes of Health asked the National Research Council (NRC) and the Institute of Medicine (IOM) to convene a panel of experts to study the issue. The Panel on Understanding Cross-National Health Differences Among High-Income Countries examined whether the U.S. health disadvantage exists across the life span, considered potential explanations, and assessed the larger implications of the findings. *U.S. Health in International Perspective* presents detailed evidence on the issue, explores the possible explanations for the shorter and less healthy lives of Americans than those of people in comparable countries, and recommends actions by both government and nongovernment agencies and organizations to address the U.S. health disadvantage.

**2 reasons why environmental science is important: Environmental Science For**

**Dummies** Alecia M. Spooner, 2012-06-22 The easy way to score high in Environmental Science Environmental science is a fascinating subject, but some students have a hard time grasping the interrelationships of the natural world and the role that humans play within the environment. Presented in a straightforward format, *Environmental Science For Dummies* gives you plain-English, easy-to-understand explanations of the concepts and material you'll encounter in your introductory-level course. Here, you get discussions of the earth's natural resources and the problems that arise when resources like air, water, and soil are contaminated by manmade pollutants. Sustainability is also examined, including the latest advancements in recycling and energy production technology. *Environmental Science For Dummies* is the most accessible book on the market for anyone who needs to get a handle on the topic, whether you're looking to supplement classroom learning or simply interested in learning more about our environment and the problems we face. Presents straightforward information on complex concepts Tracks to a typical introductory level Environmental Science course Serves as an excellent supplement to classroom learning If you're enrolled in an introductory Environmental Science course or studying for the AP Environmental Science exam, this hands-on, friendly guide has you covered.

**2 reasons why environmental science is important: Environmental Science** Y. K. Singh, 2006-12 Environmental Science is one of the most important areas of research and study in present time and its application in every aspect of life has also increased . Keeping this in view, almost all Indian Universities have introduced it as a compulsory course. This book is intended to suit the needs of graduate and postgraduate students pursuing environmental studies. To save the natural environment, a good and effective understanding of environmental science is needed. Environmental science is a term that has been widely used in recent years and its manifestations can range from environmental awareness learning through complex and expensive environmental study to operational research studies of environmental education systems.

**2 reasons why environmental science is important: Global Environmental Change** National Research Council, Division of Behavioral and Social Sciences and Education, Board on Environmental Change and Society, Committee on the Human Dimensions of Global Change, 1991-02-01 Global environmental change often seems to be the most carefully examined issue of our time. Yet understanding the human side—human causes of and responses to environmental change—has not yet received sustained attention. *Global Environmental Change* offers a strategy for combining the efforts of natural and social scientists to better understand how our actions influence global change and how global change influences us. The volume is accessible to the nonscientist and provides a wide range of examples and case studies. It explores how the attitudes and actions of individuals, governments, and organizations intertwine to leave their mark on the health of the planet. The book focuses on establishing a framework for this new field of study, identifying problems that must be overcome if we are to deepen our understanding of the human dimensions of global change, presenting conclusions and recommendations.

**2 reasons why environmental science is important: Innovation Strategies in Environmental Science** Charis M. Galanakis, 2019-08-20 *Innovation Strategies in Environmental Science* introduces and examines economically viable innovations to optimize performance and sustainability. By exploring short and long-term strategies for the development of networks and platform development, along with suggestions for open innovation, chapters discuss sustainable development ideas in key areas such as urban management/eco-design and conclude with case studies of end-user-inclusive strategies for the water supply sector. This book is an important resource for environmental and sustainability scientists interested in introducing innovative practices into their work to minimize environmental impacts. - Presents problem-oriented research and solutions - Offers strategies for minimizing or avoiding the environmental impacts of industrial production - Includes case studies on topics such as end user-inclusive innovation strategies for the water supply sector

**2 reasons why environmental science is important: Keywords for Environmental Studies** Joni Adamson, William A. Gleason, David Pellow, 2016-02-26 Introduces key terms, quantitative and qualitative research, debates, and histories for Environmental and Nature Studies Understandings of

"nature" have expanded and changed, but the word has not lost importance at any level of discourse: it continues to hold a key place in conversations surrounding thought, ethics, and aesthetics. Nowhere is this more evident than in the interdisciplinary field of environmental studies. *Keywords for Environmental Studies* analyzes the central terms and debates currently structuring the most exciting research in and across environmental studies, including the environmental humanities, environmental social sciences, sustainability sciences, and the sciences of nature. Sixty essays from humanists, social scientists, and scientists, each written about a single term, reveal the broad range of quantitative and qualitative approaches critical to the state of the field today. From "ecotourism" to "ecoterrorism," from "genome" to "species," this accessible volume illustrates the ways in which scholars are collaborating across disciplinary boundaries to reach shared understandings of key issues—such as extreme weather events or increasing global environmental inequities—in order to facilitate the pursuit of broad collective goals and actions. This book underscores the crucial realization that every discipline has a stake in the central environmental questions of our time, and that interdisciplinary conversations not only enhance, but are requisite to environmental studies today. Visit [keywords.nyupress.org](http://keywords.nyupress.org) for online essays, teaching resources, and more.

**2 reasons why environmental science is important: *Principles of Environmental Sciences***  
Jan J. Boersema, Lucas Reijnders, 2008-12-12 International experts provide a comprehensive picture of the principles, concepts and methods that are applicable to problems originating from the interaction between the living/non-living environment and mankind. Both the analysis of such problems and the way solutions to environmental problems may work in specific societal contexts are addressed. Disciplinary approaches are discussed but there is a focus on multi- and interdisciplinary methods. A large number of practical examples and case studies are presented. There is special emphasis on modelling and integrated assessment. This book is different because it stresses the societal, cultural and historical dimensions of environmental problems. The main objective is to improve the ability to analyse and conceptualise environmental problems in context and to make readers aware of the value and scope of different methods. Ideal as a course text for students, this book will also be of interest to researchers and consultants in the environmental sciences.

**2 reasons why environmental science is important: *Decision Making for the Environment***  
National Research Council, Division of Behavioral and Social Sciences and Education, Center for Economic, Governance, and International Studies, Committee on the Human Dimensions of Global Change, Panel on Social and Behavioral Science Research Priorities for Environmental Decision Making, 2005-07-01 With the growing number, complexity, and importance of environmental problems come demands to include a full range of intellectual disciplines and scholarly traditions to help define and eventually manage such problems more effectively. *Decision Making for the Environment: Social and Behavioral Science Research Priorities* is the result of a 2-year effort by 12 social and behavioral scientists, scholars, and practitioners. The report sets research priorities for the social and behavioral sciences as they relate to several different kinds of environmental problems.

**2 reasons why environmental science is important: *Research to Protect, Restore, and Manage the Environment***  
National Research Council, Division on Earth and Life Studies, Commission on Life Sciences, Committee on Environmental Research, 1993-02-01 This book assesses the strengths and weaknesses of current environmental research programs, describes the desirable characteristics of an effective program, and recommends cultural and organizational changes to improve the performance of environmental research. Research areas in need of greater emphasis are identified, and overall directions for environmental research are recommended. The book also comments on the proposal to establish a National Institute for the Environment and on the elevation of the Environmental Protection Agency to cabinet status.

**2 reasons why environmental science is important: *Building a Foundation for Sound Environmental Decisions***  
National Research Council, Division on Earth and Life Studies,

Commission on Geosciences, Environment and Resources, Committee on Research Opportunities and Priorities for EPA, 1997-09-01 Over the past decades, environmental problems have attracted enormous attention and public concern. Many actions have been taken by the U.S. Environmental Protection Agency and others to protect human health and ecosystems from particular threats. Despite some successes, many problems remain unsolved and new ones are emerging. Increasing population and related pressures, combined with a realization of the interconnectedness and complexity of environmental systems, present new challenges to policymakers and regulators. Scientific research has played, and will continue to play, an essential part in solving environmental problems. Decisions based on incorrect or incomplete understanding of environmental systems will not achieve the greatest reduction of risk at the lowest cost. This volume describes a framework for acquiring the knowledge needed both to solve current recognized problems and to be prepared for the kinds of problems likely to emerge in the future. Many case examples are included to illustrate why some environmental control strategies have succeeded where others have fallen short and how we can do better in the future.

**2 reasons why environmental science is important:** Advancing the Science of Climate Change National Research Council, Division on Earth and Life Studies, Board on Atmospheric Sciences and Climate, America's Climate Choices: Panel on Advancing the Science of Climate Change, 2011-01-10 Climate change is occurring, is caused largely by human activities, and poses significant risks for-and in many cases is already affecting-a broad range of human and natural systems. The compelling case for these conclusions is provided in Advancing the Science of Climate Change, part of a congressionally requested suite of studies known as America's Climate Choices. While noting that there is always more to learn and that the scientific process is never closed, the book shows that hypotheses about climate change are supported by multiple lines of evidence and have stood firm in the face of serious debate and careful evaluation of alternative explanations. As decision makers respond to these risks, the nation's scientific enterprise can contribute through research that improves understanding of the causes and consequences of climate change and also is useful to decision makers at the local, regional, national, and international levels. The book identifies decisions being made in 12 sectors, ranging from agriculture to transportation, to identify decisions being made in response to climate change. Advancing the Science of Climate Change calls for a single federal entity or program to coordinate a national, multidisciplinary research effort aimed at improving both understanding and responses to climate change. Seven cross-cutting research themes are identified to support this scientific enterprise. In addition, leaders of federal climate research should redouble efforts to deploy a comprehensive climate observing system, improve climate models and other analytical tools, invest in human capital, and improve linkages between research and decisions by forming partnerships with action-oriented programs.

**2 reasons why environmental science is important:** Fire Ecology of Pacific Northwest Forests James K Agee, 1993-11 A leading expert in the emerging field of fire ecology, James Agee analyzes the ecological role of fire in the creation and maintenance of the natural forests common to most of the western U.S. In addition to examining fire from an ecological perspective, he provides insight into its historical and cultural aspects, and also touches on some of the political issues that influence the use of fire. Although the focus of chapters on the ecology of specific forest zones is on the Pacific Northwest, much of the book addresses issues that are applicable to other regions. Illustrations, tables, index.

**2 reasons why environmental science is important:** A Framework for K-12 Science Education National Research Council, Division of Behavioral and Social Sciences and Education, Board on Science Education, Committee on a Conceptual Framework for New K-12 Science Education Standards, 2012-02-28 Science, engineering, and technology permeate nearly every facet of modern life and hold the key to solving many of humanity's most pressing current and future challenges. The United States' position in the global economy is declining, in part because U.S. workers lack fundamental knowledge in these fields. To address the critical issues of U.S. competitiveness and to better prepare the workforce, A Framework for K-12 Science Education

proposes a new approach to K-12 science education that will capture students' interest and provide them with the necessary foundational knowledge in the field. A Framework for K-12 Science Education outlines a broad set of expectations for students in science and engineering in grades K-12. These expectations will inform the development of new standards for K-12 science education and, subsequently, revisions to curriculum, instruction, assessment, and professional development for educators. This book identifies three dimensions that convey the core ideas and practices around which science and engineering education in these grades should be built. These three dimensions are: crosscutting concepts that unify the study of science through their common application across science and engineering; scientific and engineering practices; and disciplinary core ideas in the physical sciences, life sciences, and earth and space sciences and for engineering, technology, and the applications of science. The overarching goal is for all high school graduates to have sufficient knowledge of science and engineering to engage in public discussions on science-related issues, be careful consumers of scientific and technical information, and enter the careers of their choice. A Framework for K-12 Science Education is the first step in a process that can inform state-level decisions and achieve a research-grounded basis for improving science instruction and learning across the country. The book will guide standards developers, teachers, curriculum designers, assessment developers, state and district science administrators, and educators who teach science in informal environments.

**2 reasons why environmental science is important: Drawdown** Paul Hawken, 2017-04-18 • New York Times bestseller • The 100 most substantive solutions to reverse global warming, based on meticulous research by leading scientists and policymakers around the world “At this point in time, the Drawdown book is exactly what is needed; a credible, conservative solution-by-solution narrative that we can do it. Reading it is an effective inoculation against the widespread perception of doom that humanity cannot and will not solve the climate crisis. Reported by-effects include increased determination and a sense of grounded hope.” —Per Espen Stoknes, Author, What We Think About When We Try Not To Think About Global Warming “There’s been no real way for ordinary people to get an understanding of what they can do and what impact it can have. There remains no single, comprehensive, reliable compendium of carbon-reduction solutions across sectors. At least until now. . . . The public is hungry for this kind of practical wisdom.” —David Roberts, Vox “This is the ideal environmental sciences textbook—only it is too interesting and inspiring to be called a textbook.” —Peter Kareiva, Director of the Institute of the Environment and Sustainability, UCLA In the face of widespread fear and apathy, an international coalition of researchers, professionals, and scientists have come together to offer a set of realistic and bold solutions to climate change. One hundred techniques and practices are described here—some are well known; some you may have never heard of. They range from clean energy to educating girls in lower-income countries to land use practices that pull carbon out of the air. The solutions exist, are economically viable, and communities throughout the world are currently enacting them with skill and determination. If deployed collectively on a global scale over the next thirty years, they represent a credible path forward, not just to slow the earth’s warming but to reach drawdown, that point in time when greenhouse gases in the atmosphere peak and begin to decline. These measures promise cascading benefits to human health, security, prosperity, and well-being—giving us every reason to see this planetary crisis as an opportunity to create a just and livable world.

**2 reasons why environmental science is important: Understanding Environmental Issues** Susan Buckingham, Mike Turner, 2008-05-13 Understanding Environmental Issues provides an excellent foundation for developing critical thinking about contemporary environmental concerns and the ways in which these are debated, represented and managed. The book should achieve its aim of stimulating students to engage with how ideas of sustainability and environmental justice can be applied both in policy and in practical action. - Gordon Walker, Lancaster Environment Centre, Lancaster University The arena of environmental issues is a minefield for undergraduate students seeking clarity about key problems and solutions. This is where Understanding Environmental Issues will play a major role, providing a stimulating guide through the wealth of material and complex

ideas. In particular the unification of social and physical science in the case studies provides a holistic approach to the subject that is essential for students and a refreshing innovation for environmental textbooks. - Anna R. Davies, Trinity College, University of Dublin There is now an unprecedented interest in, and concern about, environmental problems. Understanding Environmental Issues explains the science behind these problems, as well as the economic, political, social, and cultural factors which produce and reproduce them. This book: Explains, clearly and concisely, the science and social science necessary to understand environmental issues. Describes - in section one - the philosophies, values, politics, and technologies which contribute to the production of environmental issues. Uses cases on climate change, waste, food, and natural hazards in section two to provide detailed illustration and exemplification of the ideas described in section one. The conclusion, a case study of Mexico City, draws together the key themes Vivid, accessible and pedagogically informed, Understanding Environmental Issues will be a key resource for undergraduate and taught postgraduate students in Geography, Environment, and Ecology; as well as students of the social sciences with an interest in environmental issues.

**2 reasons why environmental science is important:** Silent Spring Rachel Carson, 2002 The essential, cornerstone book of modern environmentalism is now offered in a handsome 40th anniversary edition which features a new Introduction by activist Terry Tempest Williams and a new Afterword by Carson biographer Linda Lear.

**2 reasons why environmental science is important:** Linking Science and Technology to Society's Environmental Goals National Research Council, Policy and Global Affairs, Policy Division, 1996-11-21 Where should the United States focus its long-term efforts to improve the nation's environment? What are the nation's most important environmental issues? What role should science and technology play in addressing these issues? Linking Science and Technology to Society's Environmental Goals provides the current thinking and answers to these questions. Based on input from a range of experts and interested individuals, including representatives of industry, government, academia, environmental organizations, and Native American communities, this book urges policymakers to: Use social science and risk assessment to guide decision-making. Monitor environmental changes in a more thorough, consistent, and coordinated manner. Reduce the adverse impact of chemicals on the environment. Move away from the use of fossil fuels. Adopt an environmental approach to engineering that reduces the use of natural resources. Substantially increase our understanding of the relationship between population and consumption. This book will be of special interest to policymakers in government and industry; environmental scientists, engineers, and advocates; and faculty, students, and researchers.

**2 reasons why environmental science is important:** Information Systems and the Environment National Academy of Engineering, 2001-09-13 Information technology is a powerful tool for meeting environmental objectives and promoting sustainable development. This collection of papers by leaders in industry, government, and academia explores how information technology can improve environmental performance by individual firms, collaborations among firms, and collaborations among firms, government agencies, and academia. Information systems can also be used by nonprofit organizations and the government to inform the public about broad environmental issues and environmental conditions in their neighborhoods. Several papers address the challenges to information management posed by the explosive increase in information and knowledge about environmental issues and potential solutions, including determining what information is environmentally relevant and how it can be used in decision making. In addition, case studies are described and show how industry is using information systems to ensure sustainable development and meet environmental standards. The book also includes examples from the public sector showing how governments use information knowledge systems to disseminate best practices beyond big firms to small businesses, and from the world of the Internet showing how knowledge is shared among environmental advocates and the general public.

**2 reasons why environmental science is important:** Texas Aquatic Science Rudolph A. Rosen, 2014-12-29 This classroom resource provides clear, concise scientific information in an

understandable and enjoyable way about water and aquatic life. Spanning the hydrologic cycle from rain to watersheds, aquifers to springs, rivers to estuaries, ample illustrations promote understanding of important concepts and clarify major ideas. Aquatic science is covered comprehensively, with relevant principles of chemistry, physics, geology, geography, ecology, and biology included throughout the text. Emphasizing water sustainability and conservation, the book tells us what we can do personally to conserve for the future and presents job and volunteer opportunities in the hope that some students will pursue careers in aquatic science. Texas Aquatic Science, originally developed as part of a multi-faceted education project for middle and high school students, can also be used at the college level for non-science majors, in the home-school environment, and by anyone who educates kids about nature and water. To learn more about The Meadows Center for Water and the Environment, sponsors of this book's series, please click [here](#).

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