

# **Small is Profitable**

The Hidden Economic Benefits of Making  
Electrical Resources the Right Size

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# Small Is Profitable The Hidden Economic Benefits Of Making Electrical Resources The Right Size

**Benjamin K. Sovacool, Marilyn A.  
Brown**



## **Small Is Profitable The Hidden Economic Benefits Of Making Electrical Resources The Right Size:**

*Small is Profitable* Amory B. Lovins, 2020-11-27 Today's electricity industry large power stations feeding a nationwide grid will soon be a thing of the past. This book explains why and what will replace it: decentralized and distributed electrical resources which can be up to 10 times as economically valuable. The authors, all leading experts in the field, explain very clearly and thoroughly all the benefits so the engineers will understand the economic advantages and the investors will understand the engineering efficiencies. Here's what industry experts are saying about *Small is Profitable*: A tour de force and a goldmine of good ideas. It is going to have a stunning impact on thinking about electricity. Walter C. Patterson, Senior Research Fellow, Royal Institute of International Affairs, London. An amazing undertaking, incredibly ambitious yet magnificently researched and executed. Dr. Shimon Awerbuch, Senior Advisor, International Energy Agency, Paris. Outstanding. You have thought of some benefits I never considered. A great resource for the innovation in energy services that will have to take place for us to have a sustainable future. Dr. Carl Weinberg, Weinberg Associates, former Research Director, PG&E. This is a brilliant synthesis and overview with a lot of original analytics and insights and a very important overall theme. I think it is going to have a big impact. Greg Kats, Principal, Capital E LLC, former Finance Director for Efficiency and Renewable Energy, U.S. Department of Energy. E. F. Schumacher would be proud of this rigorous extension of his thesis in *Small is Beautiful*. It shows how making systems the right size can make them work better and cost less. Here are critical lessons for the new century technologies tailored to the needs of people, not the reverse. Can improve the economy and the environment. Dr. Daniel Kammen, Professor of Energy and Society and of Public Policy, University of California, Berkeley. *Small is Profitable* creates an unconventional but impeccably reasoned foundation to correctly assign the costs and true benefits of distributed energy systems. It has become an indispensable tool for modelling distributed energy systems benefits for us. Tom Dinwoodie, CEO and Chairman, PowerLight Corporation. A unique and valuable contribution to the distributed energy industry. *Small Is Profitable* highlights the societal benefits of distributed resources and will be a helpful guide to policymakers who wish to properly account for these benefits in the marketplace. Nicholas Lenssen, Senior Director, Primen. This book will shift the electric industry from the hazards of overcentralization toward the new era where distributed generation will rule. Steven J. Strong, President, Solar Design Associates, Inc. Readers will understand why distributed resources are poised to fundamentally alter the electric power system. Its comprehensive review of the benefits of distributed resources is an important part of my library. Dr. Thomas E. Hoff, President, Clean Power Research. The most comprehensive treatise on distributed generation. Great job and congratulations. Howard Wenger, Principal, Pacific Energy Group. Densely packed with information and insights goes a long way to demonstrate that the former paradigm of electric power supply no longer makes sense. Prof. Richard Hirsh, University of Vermont. Leading historian of the electric power sector. Amory Lovins was already the world's most original and influential thinker on the future of energy services in general and electricity systems in particular. This remarkable book is a

very worthy addition to an extraordinary legacy Ralph Cavanagh Energy Co Director Natural Resources Defense Council This is a book every utility professional should have on the bookshelf Dr Peter S Fox Penner Principal and Chairman of the Board the Brattle Group former Principal Deputy Assistant Secretary of Energy Gary Bryner, The Historical Dictionary of Environmentalism strategically skips across issues concepts time organizations and cultures not with any pretense of producing a definitive dictionary but rather with the aim of producing an inclusive wide ranging and global history of environmentalism This is done through a chronology a list of acronyms and abbreviations an introductory essay and over 300 cross referenced dictionary entries **The A to Z of Environmentalism** Peter Dauvergne, 2009-09-02 Environmentalism involves hundreds of international environmental groups thousands of national groups and tens of thousands of local ones It also includes hundreds of international agreements hundreds of national environmental agencies and countless environmental sections in other organizations from those in multinational corporations to ones in regional and international organizations Such environmental concepts as sustainable development the precautionary principle corporate social responsibility and eco labeling percolate from all of these sources Every year new ideas refinements policies institutions markets and problems continue to enter into environmental debates and discourses making it nearly impossible to keep abreast of the changes constantly taking place The A to Z of Environmentalism is a paperback edition of the Historical Dictionary of Environmentalism It strategically skips across issues concepts time organizations and cultures not with any pretense of producing a definitive dictionary but rather with the aim of producing an inclusive wide ranging and global history of environmentalism This goal is accomplished through a chronology an introductory essay and over 300 cross referenced dictionary entries **Decentralised Power Generation in the Liberalised EU Energy Markets** Wolfram Jörß, Birte Holst Joergensen, Peter Loeffler, Poul Erik Morthorst, Martine Uytterlinde, Emiel van Sambeek, Timon Wehnert, 2013-03-09 The book gives a comprehensive overview of technologies for decentralised power generation DG technologies including those based on both renewable energy sources RES and on combined heat and power CHP technologies and of relevant policies of the EU and its Member States Special attention is paid to barriers to implementation and success factors that were drawn from 24 case studies carried out throughout the EU Furthermore the book offers policy recommendations regarding how to move towards a level playing field for DG technologies Additionally the analysis is founded on the results of a study for future developments in European DG technologies and likely scenarios for the role of DG in the future **Power to the People** Vijay V. Vaitheeswaran, 2025-09-23 A guided tour of a revolution in the making that promises to change our lives Global warming rolling black outs massive tanker spills oil dependence our profligate ways have doomed us to suffer such tragedies right Perhaps but Vijay Vaitheeswaran the energy and environment correspondent for The Economist sees great opportunity in the energy realm today and Power to the People is his fiercely independent and irresistibly entertaining look at the economic political and technological forces that are reshaping the world's management of

energy resources In it he documents an energy revolution already underway a revolution as radical as the communications revolution of the past decades From the corporate boardroom of a Texas oil titan who denies the reality of global warming to a think tank nestled in the Rocky Mountains where a visionary named Amory Lovins is developing the kind of hydrogen fuel cell technology that could make the internal combustion engine obsolete Vaitheeswaran gamely pursues the people who hold the keys to our future Man's quest for energy is insatiable It is also essential By avoiding the traditional binaries that pit free markets against the wisdom of conservation and the need for clean energy Power to the People is a book that debunks myths without debunking hope

**Our Environmental Handprints** Jon R. Biemer, 2021-05-05 Readers should be inspired informed and ready to go Booklist Starred Review Offers 175 actions readers can take to create a more sustainable global environment You care about the environment the world you live in and the world you are going to leave behind for future generations Perhaps you already avoid wasting energy and buying more things than you need reducing your Ecological Footprint Yet there is a limit given your family and circumstances What can you do that will truly help heal our planet Our Environmental Handprints is the first book to fully explore your Handprint how you can create sustainability in your life and in the world Your Handprint is limited only by your imagination The good you do can be greater than your Footprint It is time to put more energy into your Handprint The smart beauty of the Handprint is that it can be self-perpetuating Take planting a tree as an example You put a seedling into the ground water it and then leave it alone That tree will then grow itself and pull carbon dioxide from the air and create oxygen for us to breathe for as long as it lives And seeds from that tree create more trees Here Jon Biemer draws our attention to proven strategies across the spectrum We make a difference with the choices we make about the clothing we buy the investments we make and even the food we choose to eat Handprint Thinking applies to shelter eco remodeling and LEED buildings motion electric cars and living without a car and earth friendly energy He provides 175 proven Handprint suggestions that will help readers align their interests lifestyle and motivations toward a more sustainable earth

*Natural Capitalism* Paul Hawken, Amory B. Lovins, L. Hunter Lovins, 2013-09-13 On its first publication 10 years ago Natural Capitalism rocked the world of business with its innovative new approach an approach that fused ecological integrity with business acumen using the radical concept of natural capitalism This 10th anniversary edition features a new Introduction by Amory B. Lovins and Paul Hawken which updates the story to include the successes of the last decade It clearly sets out the path that we must now take to ensure the future prosperity of our civilisation and our planet

**Energy Efficiency** Leslie A. Solmes, 2009-09-30 ENERGY EFFICIENCY uses an applied scientific methodology and case studies to demonstrate and support The need for the U S and the world to commit to energy and resource efficiency as the central goal in investing in electric heat and cooling infrastructure the huge economic opportunity for using the inefficiency built into 20th century energy supply systems especially electric to pay for the upgrades replacements and new production and distribution systems of the 21st century the importance of adopting a standard web based energy infrastructure

investment decision making and risk management tool that will serve as a communication medium for all stakeholders to evaluate and compare energy infrastructure investment options and manage investment risks expansions of the U S smart grid investment to include evaluation and risk management of energy systems infrastructure investments not just electricity operations the need to adopt a framework for utilities energy service companies and customers to work together to close business deals communicate and manage risks and realize profits

Renewable and Efficient Electric Power Systems  
 Gilbert M. Masters, 2005-01-03 This is a comprehensive textbook for the new trend of distributed power generation systems and renewable energy sources in electric power systems It covers the complete range of topics from fundamental concepts to major technologies as well as advanced topics for power consumers An Instructor's Manual presenting detailed solutions to all the problems in the book is available from the Wiley editorial department to obtain the manual send an email to [ialine@wiley.com](mailto:ialine@wiley.com)

*Cents and Sustainability* Michael H. Smith, Karlson Hargroves, Cheryl Desha, 2010 Cents and Sustainability is a clear sighted response to the 1987 call by Dr Gro Brundtland in Our Common Future to achieve a new era of economic growth that is forceful and at the same time socially and environmentally sustainable The Brundtland Report argued that not only was it achievable but that it was an urgent imperative in order to achieve a transition to sustainable development while significantly reducing poverty and driving clean and green investment With some still arguing for significantly slowing economic growth in order to reduce pressures on the environment this new book Cents and Sustainability shows that it is possible to reconcile the need for economic growth and environmental sustainability through a strategy to decouple economic growth from environmental pressures combined with a renewed commitment to achieve significant environmental restoration and poverty reduction Beginning with a brief overview of some of the most pressing environmental challenges of our time the book then explains decoupling theory overviews a number of factors that can undermine and even block efforts to decouple in both developed and developing countries and then discusses a number of key considerations to assist the development of national decoupling strategies The book then focuses on presenting evidence to support greater action not just on climate change but also on decoupling economic growth from the loss of biodiversity and the deterioration of natural systems freshwater extraction waste production and air pollution In the lead up to the 2012 United Nations Earth Summit and beyond Cents and Sustainability will be a crucial guide to inform and assist nations to develop strategies to significantly reduce environmental pressures strengthen their economy create jobs and reduce poverty I commend the team from The Natural Edge Project and their partners for undertaking to develop a response to Our Common Future to mark its 20th anniversary Dr Gro Brundtland Sequel to The Natural Advantage of Nations Published with The Natural Edge Project

**Energy Technology Innovation** Arnulf Grubler, Charlie Wilson, 2014 An edited volume on factors determining success or failure of energy technology innovation for researchers and policy makers **Technology and Society, second edition**  
 Deborah G. Johnson, Jameson M. Wetmore, 2021-08-24 Writings by thinkers ranging from Rokeya Sakhawat Hossain to Bruno

Latour that focus on the interconnections of technology society and values Technological change does not happen in a vacuum decisions about which technologies to develop fund market and use engage ideas about values as well as calculations of costs and benefits In order to influence the development of technology for the better we must first understand how technology and society are inextricably bound together These writings by thinkers ranging from Bruno Latour to Francis Fukuyama help us do just that examining how people shape technology and how technology shapes people This second edition updates the original significantly offering twenty one new essays along with fifteen from the first edition The book first presents visions of the future that range from technological utopias to cautionary tales and then introduces several major STS theories It examines human and social values and how they are embedded in technological choices and explores the interesting and subtle complexities of the technology society relationship Remedying a gap in earlier theorizing in the field many of the texts illustrate how race and gender are intertwined with technology Finally the book offers a set of readings that focus on the sociotechnical challenges we face today treating topics that include cybersecurity geoengineering and the myth of neutral technology

**The Small-Mart Revolution (Volume 2 of 2) (EasyRead Super Large 18pt Edition) ,** Hydro Jamie Swift,Keith Stewart,2004 Nothing is going to go wrong Mike Harris 2001 Privatization of power soon became one of the biggest political disasters in Ontario history Hydro reveals a train wreck that was decades in the making First there was blind faith in the nuclear option steeped in ecological arrogance Then came the promise of marketplace magic Jamie Swift and Keith Stewart tell the tale of how it unfolded It s a dramatic story of the greed intrigue and resistance that led to the dismantling of Canada s largest crown corporation A crucial part of the story is how Ontario ignored thirty years of green arguments for conservation and renewable energy Based on interviews with former premiers Hydro insiders and grassroots activists Hydro will intrigue anyone wondering how to keep the lights on without frying the planet

*Renewable Energy* Bent Sorensen,2018-12-14 This four volume set edited by a leading expert in the field brings together in one collection a series of papers that have been fundamental to the development of renewable energy as a defined discipline Some of the papers were first published many years ago but they remain classics in their fields and retain their relevance to the understanding of current issues The papers have been selected with the assistance of an eminent international editorial board The set includes a general introduction and each volume is introduced by a new overview essay placing the selected papers in context The range of subject matter is considerable including coverage of all the main renewable technologies the fundamental principles by which they function and the issues around their deployment such as planning integration and socio economic assessment Overall the set provides students teachers and researchers confronted with thousands of journal articles book chapters and grey literature stretching back decades with a ready made selection of and commentary on the most important key writings in renewable energy It will be an essential reference for libraries concerned with energy technology and the environment

**Energy and American Society - Thirteen Myths** Benjamin K.

Sovacool, Marilyn A. Brown, 2007-05-04 Current events related to energy policy skyrocketing gasoline prices the 2003 Northeast Blackout the Kyoto Protocol's enactment passage of the Energy Policy Act of 2005 and the influence of recent Gulf Coast hurricanes on energy supplies and prices demand innovative approaches towards conceptualizing the relationship between energy and American society This book takes on a central quandary in the study of energy and environmental policy What myths continue to exist in American culture concerning energy the environment and society It enrolls twenty four of the nation's top experts working on energy policy in industry government laboratories utilities nonprofit organizations and universities to debunk and contextualize thirteen energy myths relating to electric power renewable energy energy efficiency transportation and climate change While the book focuses on the American experience it will be of interest to those working in the fields of energy policy energy and the environment and technology assessment worldwide This is a brilliant bold and fascinating book that should be read by anybody even remotely concerned about energy the environment or the future of American society Art Rosenfeld Commissioner California Energy Commission and recipient of the 2006 Enrico Fermi Award This work is a must read for anyone interested in American energy policy Kateri Callahan President Alliance to Save Energy By collecting the best minds to debunk the greatest of these myths Sovacool and Brown have brought us a step closer to finding a national energy policy based on common sense Chris Cooper Executive Director Network for New Energy Choices Sovacool and Brown provide a bold and imaginative way forward John A Skip Laitner Visiting Fellow and Senior Economist American Council for an Energy Efficient Economy      Sustainable Fossil Fuels Mark Jaccard, 2006-01-16 More and more people believe we must quickly wean ourselves from fossil fuels oil natural gas and coal to save the planet from environmental catastrophe wars and economic collapse In this 2006 book Professor Jaccard argues that this view is misguided We have the technological capability to use fossil fuels without emitting climate threatening greenhouse gases or other pollutants The transition from conventional oil and gas to their unconventional sources including coal for producing electricity hydrogen and cleaner burning fuels will decrease energy dependence on politically unstable regions In addition our vast fossil fuel resources will be the cheapest source of clean energy for the next century and perhaps longer which is critical for the economic and social development of the world's poorer countries By buying time for increasing energy efficiency developing renewable energy technologies and making nuclear power more attractive fossil fuels will play a key role in humanity's quest for a sustainable energy system      *Solar Revolution* Travis Bradford, 2008-09-26 An innovative analysis that shows how the shift to solar energy in particular the use of photovoltaic cells is both economically advantageous and inevitable and will rival the information and communication technologies revolution in its transformative effects In *Solar Revolution* fund manager and former corporate buyout specialist Travis Bradford argues on the basis of standard business and economic forecasting models that over the next two decades solar energy will increasingly become the best and cheapest choice for most electricity and energy applications *Solar Revolution* outlines the path by which the transition to solar



technology and sustainable energy practices will occur. Developments in the photovoltaic PV industry over the last ten years have made direct electricity generation from PV cells a cost effective and feasible energy solution despite the common view that PV technology appeals only to a premium niche market. Bradford shows that PV electricity today has become the choice of hundreds of thousands of mainstream homeowners and businesses in many markets worldwide including Japan, Germany and the American Southwest. Solar energy will eventually be the cheapest source of energy in nearly all markets and locations because PV can bypass the aging and fragile electricity grid and deliver its power directly to the end user, fundamentally changing the underlying economics of energy. As the scale of PV production increases and costs continue to decline at historic rates, demand for PV electricity will outpace supply of systems for years to come. Ultimately the shift from fossil fuels to solar energy will take place not because solar energy is better for the environment or energy security or because of future government subsidies or as yet undeveloped technology. The solar revolution is already occurring through decisions made by self interested energy users. The shift to solar energy is inevitable and will be as transformative as the last century's revolutions in information and communication technologies.

*Issues and Challenges of Intelligent Systems and Computational Intelligence* László T. Kóczy, Claudiu R. Poza, Janusz Kacprzyk, 2014-01-11. This carefully edited book contains contributions of prominent and active researchers and scholars in the broadly perceived area of intelligent systems. The book is unique both with respect to the width of coverage of tools and techniques and to the variety of problems that could be solved by the tools and techniques presented. The editors have been able to gather a very good collection of relevant and original papers by prominent representatives of many areas relevant both to the theory and practice of intelligent systems: artificial intelligence, computational intelligence, soft computing and the like. The contributions have been divided into 7 parts presenting first more fundamental and theoretical contributions and then applications in relevant areas.

Przedsiębiorstwa biogazowe w rozwoju lokalnym w świetle koncepcji zakorzenienia JUSTYNA CHODKOWSKA-MISZCZUK, 2019. Powstawanie nowych przedsiębiorstw energetycznych na obszarach wiejskich z jednej strony stanowi wyzwanie, z drugiej zaś stwarza szansę rozwoju. Przejście od scentralizowanej energetyki konwencjonalnej w kierunku zdecentralizowanej energetyki odnawialnej wykorzystującej zasoby lokalne to proces wielopłaszczyznowy, dotyczy nie tylko zmian technologicznych, ale wymagający przede wszystkim przeobrażeń społecznych i przestrzennych. Przekształcanie w sektorze energetycznym kreśli te perspektywy indukowania nowych bodźców w rozwoju społeczno-gospodarczym danego obszaru i mobilizacji potencjału lokalnego. Działając w lokalnych układach budują się powiązania zakorzeniających się przedsiębiorstwa energetyczne, stwarzają możliwość uruchomienia się napływów lokalnych gospodarek. Tworzone relacje i połączona współpraca to także doskonała platforma popularyzowania działań edukacyjnych w zakresie postaw i zachowań charakterystycznych dla społeczeństwa niskoemisyjnego. Formułowanie oraz skutecznych polityk lokalnych szczególnie w zakresie upowszechniania się gospodarki niskoemisyjnej musi uwzględniać zidentyfikowane procesy odnoszące się do rangi powiązań między nowymi podmiotami energetycznymi a lokalnym otoczeniem.

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