

Decentralized Energy Studies: Bibliography

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SERI

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A Division of Midwest Research Institute

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DECENTRALIZED ENERGY STUDIES:
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PREFACE

This bibliography was prepared as part of the Decentralized Energy Studies task at the Solar Energy Research Institute (SERI) to provide an extensive listing of publications concerned with decentralized energy systems. The bibliography is divided into topical and geographical sections (i.e. national, multistate region, state, and community) in order to provide some indication of the relative amount of attention that has been given to each level of study and to make the bibliography more usable by researchers and government officials. This division of listings should permit researchers and officials at each level of government to discover relatively quickly what other researchers and governmental jurisdictions have done or are doing in the area of decentralized energy systems. In addition, there is a section on articles by and about Amory Lovins, who has played a pivotal role in bringing decentralization to the attention of the nation. Periodicals devoted to the general topic of decentralized energy systems and bibliographies/directories are included.

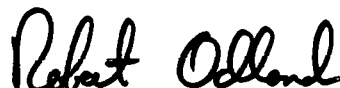
The authors attempted to compile a comprehensive listing while exercising some selectivity in dealing with a topic that is far ranging and difficult to delimit. In trying to meet the competing requirements of comprehensiveness and selectivity, the authors judgment, undoubtedly, will be questioned. Questioning in the form of suggestions on additions and deletions are welcome, since the bibliography will be revised periodically to maintain its currency in a rapidly expanding subject area. Please communicate any suggestions to any of the coauthors at SERI.

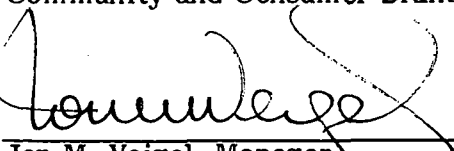

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SUMMARY

OBJECTIVE

This report provides a comprehensive bibliography on decentralized energy systems.

DISCUSSION

The literature on decentralized energy systems provides a rich source of social, economic, technical, and ecological thought that will assist the United States in making a transition to renewable energy sources. The bibliography was compiled during a research task on decentralized energy systems and provides a reference to that report.

The primary audience intended for this bibliography comprises policy makers and researchers working on decentralized energy systems. The need for an increased understanding of the complex societal issues that relate to policy making in this area is clear. It is also anticipated that local government officials, grassroots groups, and others involved in the planning and implementation of decentralized energy systems will find this bibliography of value. However, this is not primarily a listing of "how to" publications.

Decentralized planning and control involve much more than energy, and some of the works listed address issues other than energy. By the same token, the bibliography should be of use to audiences interested in making policy for planning, and implementing other types of decentralized and community-scale projects.

This literature ranges from highly abstract and theoretical works to very practical "nuts and bolts" manuals. No categorization along this dimension has been provided. The categorization scheme employed reflects issue areas that derive in large part from SERI approaches to conducting research in this area. Sections 2.0 through 6.0 reflect somewhat bounded conceptual categories or research areas—values and lifestyles; institutional analysis; land use or more general community planning; environmental and social impact analysis; and economics or feasibility assessment. Section 7.0 reflects different costs of categorization by geographic scale, ranging from the community to the aggregate national scale. Section 8.0 reflects the extent to which one person, Amory B. Lovins, has influenced this area as a writer and as the object of criticism, praises, or controversy. Section 9.0 lists periodicals that regularly carry articles of interest to people in the community energy system field, while Section 10.0 lists other bibliographies and directories.

CONCLUSIONS AND RECOMMENDATIONS

It is the intent of the Community and Consumer Branch staff at SERI to update this bibliography periodically. Contributions to the task are welcome.

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SECTION 1.0

INTRODUCTION

1.1 BACKGROUND

The ability of the U.S. political system to maintain a long-term balance between decentralized and centralized centers of power has been a critical factor in the success, thus far, of American democracy. The decentralization-centralization argument shaped the Constitution and continues to provide a useful frame of reference through which to articulate and analyze critical political, economic, and social questions. Perhaps the most critical question today concerns energy and how to make the economic, social, and political transition from dependence upon depletable energy sources to reliance upon those renewable sources that will sustain American society. Recently, energy policy debate has focused a great deal of attention upon decentralized energy systems and how they might assist the United States in making this transition. (Odland et al. 1979a,b).

The potential of small, decentralized energy systems based on renewable sources remained largely ignored until Amory Lovins (1976) published his seminal article on the "soft energy path." The debate engendered by Lovins' demarcation of the soft and hard paths toward alternative energy futures has been lively, and research in decentralized energy systems has flourished.* The decentralization-centralization debate is being argued in a variety of ways on many fronts, from congressional committees (U.S. Senate 1977) to city councils as well as industrial promotional groups (Quinn and Ohi 1980) and religious councils (National Council of Churches of Christ 1978).

The term decentralization, when applied to energy systems, usually evokes an image of small, community-owned and operated facilities based on renewable energy sources. It is a term associated with such American ideals as local autonomy, personal self-reliance, and Jeffersonian social pluralism (Maize 1979). Decentralization, however, is an elusive term because it is used to depict at various times a process, a desired end-state, a dynamic equilibrium, and a set of values that direct preferences for particular qualities of energy systems. The term is used to evoke a loosely ordered set of economic, technological, social, political, institutional, and environmental qualities and values that, when taken together, describe energy systems quite different from those that prevail today.

1.2 PURPOSE

The authors compiled this bibliography to provide a quick reference to the literature in the decentralized energy systems area. Interest in this area is intense and growing

*The "hard" path relies on "rapid expansion of high technologies" that will require even greater centralization of energy systems, but it is more difficult to relate decentralized technologies directly to the "soft" path. The soft path can consist of soft and hard technologies as long as the latter are deployed as transitional technologies. One quality of soft technologies is the matching of geographic distribution to end-use needs (Lovins 1976, p. 78), an advantage often cited for decentralization. In another publication (1977), Lovins identifies technologies based on renewable energy sources with decentralized technologies.

rapidly, resulting in a proliferation of articles, books, research papers, and newsletters. Moreover, there are myriad topical areas and disciplinary interests relevant to research on and implementation of these systems. All of this has resulted in a valuable cross-fertilization of ideas among interested persons, but simultaneously makes it increasingly difficult to remain abreast of relevant literature. This difficulty is compounded by the fact that many important ideas are found in such "fugitive" literature as unpublished papers or newsletters, small journals, or government publications with limited distribution. Thus, the authors recognized a need to compile the literature that was collected during their research and to disseminate this information to colleagues working on the same issues.

The primary audience intended for this bibliography includes policy makers and researchers working on decentralized energy systems. The need for an increased understanding of the complex societal issues that relate to decentralized energy systems' policy making is clear. It is also anticipated that local government officials, grassroots groups, and others involved in the planning and implementation of decentralized energy systems will find this bibliography of value, however, this is not primarily a listing of "how to" publications.

It should be noted that decentralized planning and control involves much more than energy, and some of the works listed do not directly address the issue of energy. By the same token, the bibliography should be of use to audiences interested in making policy for planning and implementing other types of decentralized projects.

1.3 SCOPE AND ORGANIZATION

This literature ranges from highly abstract and theoretical works to very practical "nuts and bolts" manuals. No categorization along this dimension has been provided. The categorization scheme employed reflects issue areas that derive in large part from the authors' approaches to conducting research in this area. Sections 2.0 through 6.0 reflect somewhat bounded conceptual categories or research areas: values and lifestyles; institutional analysis; land use or more general community planning; environmental and social impact analysis; and economics or feasibility assessment. Section 7.0 reflects categorization by geographic scale, ranging from the community to the aggregate national scale. Section 8.0 reflects the extent to which one person, Amory B. Lovins, has influenced this area as a writer and as the object of criticism, praise, or controversy. Section 9.0 lists periodicals that regularly carry articles of interest to people in the decentralized energy system field, while Section 10.0 lists other bibliographies and directories.

It is the intent of the authors to update this bibliography periodically. Contributions to the task are welcome.

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SECTION 2.0

LIFESTYLES AND VALUES

Values and lifestyles are relatively new as energy research topics. Yet, individuals, and to some extent communities, have for some time recognized that their choices of technologies can promote or hinder their attempts to achieve a desirable quality and style of life. To ignore this dimension of community energy systems implementation is to treat energy as an end in itself, to treat decentralized systems as mere technological fixes for technological problems.

Common sense and empirical evidence indicate that much of today's groundswell of activity related to decentralized energy planning has been inspired by an attempt on the part of some individuals and communities to capture their energy future, and to achieve such values as self-reliance, community cohesion, or a less destructive relationship with the natural environment.

The literature in this section covers a broad range of approaches to understanding lifestyles, values, and energy. Necessarily this listing is not comprehensive, but representative of the diversity of thinking to be discovered among the numerous people who are turning their attention to understanding how energy can be better used to achieve social ends.

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SECTION 3.0

INSTITUTIONS

The implementation of decentralized energy planning requires attention to the role of institutions, as participants in the planning and implementation process and as recipients of potential impacts. A shift to a more decentralized sustainable energy future undoubtedly will bring about changes in various social institutions, yet the kinds of changes that are coming are now largely a matter of speculation.

This section contains literature discussing a variety of institutional issues relevant to decentralized energy planning. The potential roles of traditional institutions such as utilities and financial organizations in decentralized energy planning, as well as impacts on these institutions, are discussed in this literature. Other topics include possibilities for new institutions such as cooperatives, opportunities for citizen participation and control in energy planning efforts, and a variety of legal and political issues relevant to decentralized energy planning.

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SECTION 4.0

LAND USE AND COMMUNITY PLANNING

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SECTION 5.0

ECONOMICS

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SECTION 6.0

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SECTION 7.0

GEOGRAPHICAL SECTIONS

Sections 7.1 through 7.4 list works on the basis of geographical scale to help researchers and government officials determine what research has been done at a particular level of government or geographical area. These sections are also intended to help government officials and citizens understand decentralized energy systems at the level of analysis (e.g., national policy or community applications) with which they are primarily concerned.

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SECTION 8.0

AMORY B. LOVINS

This section is devoted to publications by and about Amory B. Lovins, who, more than any other single individual, has helped to focus national attention on decentralized energy systems.

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SECTION 9.0

PERIODICALS

This section lists periodicals that have nourished interest and knowledge about decentralized energy systems. Publication information is given since many of these periodicals have limited distribution and may be difficult to obtain. These periodicals are an important source of information on local activity in decentralized energy systems.

Alternatives. Quarterly. Trent University, Peterborough, Ontario, Canada.

New perspectives on society and environment.

Alternative Architecture. Bimonthly. Dove Publications; 660 Newport Center Drive, Suite 1220; Newport Beach, CA 92660. Subtitled the "Energy Management Journal."

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Information service and clearinghouse for energy, environment, food, shelter, waste management, and jobs.

New England Energy Notes. Monthly. Service for Energy Conservation in Architecture; 320 Newbury St; Boston, MA 02115.

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Soft Energy Notes. Irregularly. International Project for Soft Energy Paths; 124 Spear St.; San Francisco, CA 94105.

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Official magazine of the American section of the International Solar Energy Society.

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Solar Energy Update. Semimonthly. Technical Information Center; Oak Ridge, TN 37830.

Abstract journal on energy information.

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Solar energy activities and news from the San Luis Valley community.

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Solar Utilization News. Monthly. The Alternative Energy Insitute; P.O. Box 3100; Estes Park, CO 80517.

Sun Times. Monthly. Alternative Energy Resources Organization (AERO); 435 Stapleton Building; Billings, MT 59101.

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Ways and Means. Bimonthly. Conference on Alternative State and Local Policies; 2000 Florida Ave., N.W.; Washington, DC 20009.

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SECTION 10.0

BIBLIOGRAPHIES/DIRECTORIES/REVIEWS

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