

Encyclopedia of Life Support Systems (EOLSS)

*An integrated compendium of **TWENTY ONE**
ENCYCLOPEDIAS*

*The fruits of an unprecedented global effort over the years, with
contributions from thousands of scholars from over 100
countries, and edited by nearly 400 subject experts*

Contact Addresses

Regarding Content

Encyclopedia of Life Support Systems (EOLSS)
UNESCO-EOLSS Joint Committee
Paris, France.

E-mail: boris-andreas@eolssonline.net

Regarding other matters

Encyclopedia of Life Support Systems (EOLSS)
Eolss Publishers Co. UK
E-mail: eolssunesco@eolssonline.net

and

International Center for Water and Energy Systems (ICWES)
P.O. Box :2623, Abu Dhabi, U.A.E.
E-mail: eolssunesco@gmail.com

EOLSS

The screenshot displays the UNESCO-EOLSS website interface. At the top, a browser window shows the URL <https://www.eolss.net>. The website header features the UNESCO-EOLSS logo with the tagline "A Nonprofit Global Effort" and an "eBook" icon. A navigation menu includes links for Home, About us, Free Trial, Subscription, Login, Overview, Services, Events, Authors, and Contact Us. A search bar is located in the top right corner.

The main content area features a large banner for the "EOLSS On-line Virtual Library" with the text: "A virtual dynamic library of about 600 Volumes" and "EOLSS will satisfy all your needs for authenticity, quality, breadth and depth of coverage with a choice among hundreds of subject areas and their interconnections". A "View Sample Chapters" button is visible on the banner. Below the banner is a quote: "EOLSS has the goal to provide a firm knowledge base for future activities to prolong the lifetime of the human race in a hospitable environment" attributed to Richard R. Ernst, Nobel Laureate in Chemistry.

On the right side, a sidebar menu lists various options under "Registration" (Free Trial, Subscription Information), "UNESCO-EOLSS Overview" (About EOLSS, EOLSS Demo, Outlines of the Encyclopedias, Information Booklet, EOLSS Sample Chapters, Table of Contents, Publications, How to Cite EOLSS, User Statistics, Information for Journalist/Reporters, UNESCO-EOLSS Joint Committee, Sitemap), and "Services" (Join Our Mailing List, Feedback/Evaluation).

Vertical text on the left side of the banner reads "HOW TO SUBSCRIBE" and on the right side, it reads "How to order e-Books".

About EOLSS

- *The world's largest source of thematically organized state-of-the-art knowledge for our times.*
- *Augmented and updated as frequently as once every fortnight - thus a living body of knowledge*
- *Developed under the auspices of the UNESCO*
- *A self-contained virtual library in the form of e-books and print volumes in full color to serve users with special interests.*
- *Presently about 573 e-book volumes are ready*
- *Ultimately expected to be a set of 600 volumes capturing the entire EOLSS-online body of knowledge*
- *Proposals for making the e-books also available in some major languages in addition to the original set in English in collaboration with the Universal Networking Digital Language (UNDL) Foundation, Geneva, Switzerland.*

The Twenty one Encyclopedias

1. **EARTH AND ATMOSPHERIC SCIENCES**
2. **MATHEMATICAL SCIENCES**
3. **BIOLOGICAL, PHYSIOLOGICAL AND HEALTH SCIENCES**
4. **SOCIAL SCIENCES AND HUMANITIES**
5. **PHYSICAL SCIENCES, ENGINEERING AND TECHNOLOGY RESOURCES**
6. **CHEMICAL SCIENCES ENGINEERING AND TECHNOLOGY RESOURCES**
7. **WATER SCIENCES, ENGINEERING AND TECHNOLOGY RESOURCES**
8. **ENERGY SCIENCES, ENGINEERING AND TECHNOLOGY RESOURCES**
9. **ENVIRONMENTAL AND ECOLOGICAL SCIENCES, ENGINEERING AND TECHNOLOGY RESOURCES**
10. **FOOD AND AGRICULTURAL SCIENCES, ENGINEERING AND TECHNOLOGY RESOURCES**
11. **HUMAN RESOURCES POLICY AND MANAGEMENT**
12. **NATURAL RESOURCES POLICY AND MANAGEMENT**
13. **DEVELOPMENT AND ECONOMIC SCIENCES**
14. **INSTITUTIONAL AND INFRASTRUCTURAL RESOURCES**
15. **TECHNOLOGY, INFORMATION AND SYSTEM MANAGEMENT RESOURCES**
16. **AREA STUDIES (Africa, Brazil, Canada and USA, China, Europe, Japan, Russia)**
17. **BIOTECHNOLOGY**
18. **TROPICAL BIOLOGY AND CONSERVATION MANAGEMENT**
19. **LAND USE, LAND COVER AND SOIL SCIENCES**
20. **CONTROL SYSTEMS, ROBOTICS AND AUTOMATION**
21. **DESALINATION AND WATER RESOURCES**

EOLSS Body of Knowledge...

...covers in depth

- *Disciplinary subjects*
 - *Interdisciplinary subjects*
- and*
- *Forges transdisciplinary pathways*

...has

- *Popular appeal*
- *Educational relevance*
- *Professional utility*
- *Research relevance*
- *Future and policy orientation*

EOLSS Audience

- *University/College students (undergraduates and graduates)*
- *Educators*
- *Professional practitioners and informed specialists*
- *Research personnel*
- *Policy analysts, managers, and decision makers in the public and private sectors, including development officials and non-governmental organizations*

EOLSS Presentation

- *The size of an entry (chapter) in the EOLSS may vary from about 5000 words to about 30000 words. Some memory-intensive chapters are in linked parts.*
- *The chapters are mostly at three distinct levels (in gradually increasing depth and detail) indicated by the title color*
 - *Level 1 (Theme level)*
 - *Level 2 (Topic level)*
 - *Level 3 (Article level)*
- *In some subjects, the presentations extend only to Level 2*
- *In some subjects, the presentations extend to a comprehensive treatise on the subject*

Chapter Structure

- *Title*
- *Author*
- *Author affiliation*
- *Keywords*
- *Contents*
- *Sections*
- *Glossary*
- *Bibliography*
- *Author biographical sketch(es)*
- *Tables (if present) in separate files accessible by links with captions located in the main text.*
- *Figures (if present) as separate files accessible by links to captions or thumbnails located in the main text.*
- *Appendices (if present) accessible links to citations located in the main text.*

Login Types

The screenshot displays the UNESCO-EOLSS website interface. At the top, the browser address bar shows the URL <https://www.eolss.net>. The website header includes a search bar, navigation links for 'Advanced search', 'Member Login', 'Help', and 'FAQ', and a main menu with items like 'Home', 'About us', 'Free Trial', 'Subscription', 'Login', 'Overview', 'Services', 'Events', 'Authors', and 'Contact Us'. A dropdown menu under 'Login' is open, showing 'Member Login' and 'Institution Login'. A green arrow points from the 'Individuals Login' label to the 'Member Login' option. Another green arrow points from the 'Institutions Login' label to the 'Institution Login' option. The main content area features a banner for 'Encyclopedia of Life Support Systems' with a 'View Subjects' button. A quote from Richard R. Ernst is displayed below the banner. On the right side, a vertical sidebar titled 'How to order e-Books' lists various resources such as 'Free Trial', 'Subscription Information', 'UNESCO-EOLSS Overview', 'About EOLSS', 'EOLSS Demo', 'Outlines of the Encyclopedias', 'Information Booklet', 'EOLSS Sample Chapters', 'Table of Contents', 'Publications', 'How to Cite EOLSS', 'User Statistics', and 'Information for Journalist/Reporters'. A 'How TO SUBSCRIBE' sidebar is visible on the left.

Searching EOLSS

The Encyclopedia of Life Support Systems can be browsed through the Table of Contents, or particular chapters can be found by using the Search Page. The result of a search is displayed as titles of chapters in order of degree of relevance to the search term(s). The list is arranged by subject categories, i.e., the twenty component Encyclopedias.

The list resulting from “Related Chapters” at the end of a chapter represents the Table of Contents of the Theme in which the chapter in view is located.

Login

The image shows a screenshot of a web browser displaying the login page for UNESCO-EOLSS. The browser's address bar shows the URL `greenplanet.eolss.net/EolssLogn/LoginForm.aspx`. The website header includes a search bar, navigation links like "Member Login", "Help", and "FAQ", and a main menu with items such as "Home", "About us", "Free Trial", "Subscription", "Login", "Overview", "Services", "Events", "Authors", and "Contact Us".

The central focus is a "Member Login" form with the following elements:

- User Name** input field: Annotated with a green arrow and the text "Enter your User Name".
- Password** input field: Annotated with a green arrow and the text "Enter your Password".
- Login** button: Annotated with a green arrow and the text "Click Login".
- Cancel** button: Located next to the Login button.
- Forgot your password?** link: Located below the buttons.
- Access for Institutions** link: Located at the bottom left of the form.

Vertical sidebars are present: "HOW TO SUBSCRIBE" on the left and "How to order e - Books" on the right. A blue arrow icon is visible in the bottom right corner of the page.

EOLSS Online

The screenshot shows the EOLSS Online website interface. At the top, there is a browser tab for 'Institution Administrator Page' and a search bar. Below the browser, there is a navigation bar with a search box, a 'Category' dropdown, and buttons for 'Advanced search', 'Member Login', 'Help', and 'FAQ'. The main header features the 'UNESCO-EOLSS A Nonprofit Global Effort' logo and an 'eBook' icon. A navigation menu includes links for 'Home', 'About us', 'Free Trial', 'Subscription', 'Login', 'Overview', 'Services', 'Events', 'Authors', and 'Contact Us'. A user is signed in as 'lcwes', an 'Institution Administrator'. On the left, a vertical sidebar titled 'HOW TO SUBSCRIBE' contains buttons for 'Subscription Services', 'Password Settings', 'IP Address Settings', 'Help', and 'Log Out'. On the right, a vertical sidebar titled 'How to order e-Books' is visible. The central content area displays a 'WELCOME TO EOLSS ONLINE' message with a link to 'Click here to access the Encyclopedias'. A green callout box with an arrow points to this link, containing the text 'Click to enter EOLSS'. Below the welcome message, a 'Note' provides technical requirements for viewing mathematical content, and a tip explains how to zoom in on equations. At the bottom, a message states: 'Please make sure you have cookies enabled on your browser in order to navigate EOLSS-Online'. A scroll-to-top button is located in the bottom right corner.

Institution Administrator Page

greenplanet.eolss.net/EolssLogin/GenProfInsAdmin.aspx

Search

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A Nonprofit Global Effort

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HOW TO SUBSCRIBE

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Click here to access the Encyclopedias

Click to enter EOLSS

Note : For viewing mathematical chapters with numerous and lengthy equations (heavy mathematics), it is recommended that the local computer has more than 2GB RAM. The mathematical parts may take time to unfold on the screen if the local computer is slow. If the mathematics appears incomplete, please refresh the computer screen.

One can zoom in any equation for an enlarged view by simply clicking on it. To zoom out re-click on the equation.

Please make sure you have cookies enabled on your browser in order to navigate EOLSS-Online

TWO routes to access the body of knowledge

- ***Via SEARCH using keywords either in ALL THE COMPONENT ENCYCLOPEDIAS (Subject Categories) or in A CHOSEN COMPONENT ENCYCLOPEDIA (subject Category)***
- ***By browsing the TABLE OF CONTENTS of A CHOSEN COMPONENT ENCYCLOPEDIA (subject Category)***

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Enter search words

Find documents containing

All these words:

This exact phrase:

Any of these words:

 OR OR

Search

Click to activate search

Choose a search category:

All Subject Categories (Encyclopedias)

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- | | |
|--|---|
| <input type="checkbox"/> Earth And Atmospheric Sciences | <input type="checkbox"/> Water Sciences, Engineering and Technology Resources |
| <input type="checkbox"/> Mathematical Sciences | <input type="checkbox"/> Energy Sciences, Engineering and Technology Resources |
| <input type="checkbox"/> Biological, Physiological And Health Sciences | <input type="checkbox"/> Social Sciences And Humanities |
| <input type="checkbox"/> Biotechnology | <input type="checkbox"/> Food and Agricultural Sciences Resources |
| <input type="checkbox"/> Tropical Biology And Natural Resources | <input type="checkbox"/> Human Resources Policy and Management |
| <input type="checkbox"/> Land Use, Land Cover And Soil Sciences | <input type="checkbox"/> Natural Resources Policy and Management |
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| <input type="checkbox"/> Chemical Sciences, Engineering and Technology Resources | <input type="checkbox"/> Area Studies [Regional Sustainable Development Reviews: <i>Africa, Brazil, Canada/USA, China, Europe, Japan and Russia</i>] |

Default search domain

To narrow search select subject category (ies) of interest

Search Results

UNESCO-EOLSS A Nonprofit Global Effort

You searched for documents containing
All these words: **Geology Biosphere**

Search Result
Summary

Categories: 17
Found: 189 document(s)

1. Earth and Atmospheric Sciences

Title of component
Encyclopedia

53 documents

1.SEDIMENTARY GEOLOGY AND PALEONTOLOGY

Sedimentary geology is a branch of geology concerned with the study of sedimentary rocks. It comprises the two closely related disciplines of sedimentology and stratigraphy. The main goal of sedimentary geology is to interpret the origin and distribution of sedimentary rocks in terms of the p...

2.PEDOSPHERE IS THE SOIL COVER OF THE EARTH (IS THE EARTH'S MANTLE OF SOIL)

The pedosphere is the soil cover (blanket) of the Earth, which consists of specific natural bodies (elements), i.e. of soils, which are diverse by their compositions and properties. The soil cover was formed on the surface of the land as a result of centuries-old effects (actions) of solar ra...

3.GEOLOGICAL OCEANOGRAPHY: INTRODUCTION AND HISTORICAL PERSPECTIVE

The floor of the ocean features evidence of global tectonics which accounts for geological forces that continuously shape the planet. Early geologists have explored the ocean floor for understanding the distributions of rock properties, sediment types, and marine skeletal

Truncated Summary

4.BRANC

While geophysics is one of the earth sciences, which are themselves a part of science, it is sometimes perceived as being concerned only with physical phenomena. Such a distinction is invalid, however, in that the separation of physics, chemistry, biology, and so on only makes sense when carry...

Access Chapters through
title links

5.HISTORY OF ATMOSPHERIC COMPOSITION

The data on Earth's atmosphere history for the last 4.5 billion years (the Archaean and Proterozoic time), the earliest secondary atmosphere contained carbon dioxide (CO₂), methane (CH₄), water vapor (H₂O), carbon monoxide (CO), a little nitr...

6.HISTORY OF THE EARTH'S CLIMATIC CHANGES

Based on different proxy data (e.g. lithological, palaeobotanical, isotopic etc.) the main stages of the Earth's climate during the last 4.5 billion years are presented in this chapter. The climatic history is given in more detail for the last 65 million years (the Cenozoic time) reflecting an...

7.CONTINENTS ON THE MOVE

Earth's outer form changes continuously over the geological time associated with dramatic alterations of the atmosphere, hydrosphere, and biosphere. Our planet Earth is a living organism. It breathes, develops, and gets slowly old. Mantle convection stirs the entire mantle, generating litho...

Browsing the
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A CHOSEN COMPONENT
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| <input type="checkbox"/> Biotechnology | <input type="checkbox"/> Food and Agricultural Sciences, Engineering and Technology Resources |
| <input type="checkbox"/> Tropical Biology And Natural Resources | <input type="checkbox"/> Human Resources Policy and Management |
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An Integrated Compendium Of Twenty One Encyclopedias

Search

**Choose the Component
Encyclopedia
(Subject Category)**

- Encyclopedia of Earth and Atmospheric Sciences
- Encyclopedia of Mathematical Sciences
- Encyclopedia of Biological, Physiological and Health Sciences
- Encyclopedia of Biotechnology
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- Encyclopedia of Physical Sciences, Engineering and Technology Resources
- Encyclopedia of Control Systems, Robotics, And Automation
- Encyclopedia of Chemical Sciences, Engineering and Technology Resources
- Encyclopedia of Water Sciences, Engineering and Technology Resources
- Encyclopedia of Energy Sciences, Engineering and Technology Resources
- Encyclopedia of Environmental and Ecological Sciences, Engineering and Technology Resources
- Encyclopedia of Food and Agricultural Sciences, Engineering and Technology Resources
- Encyclopedia of Human Resources Policy and Management
- Encyclopedia of Natural Resources Policy and Management
- Encyclopedia of Development and Economic Sciences
- Encyclopedia of Institutional and Infrastructural Resources
- Encyclopedia of Technology, Information, and Systems Management Resources
- Encyclopedia of Area of Studies (Regional Sustainable Development Reviews)
- Desalination and Water Resources (DESWARE)

ENCYCLOPEDIA OF ENERGY SCIENCES, ENGINEERING AND TECHNOLOGY RESOURCES - Table of Contents

THE PETROLEUM UPSTREAM INDUSTRY: HYDROCARBONS EXPLORATION AND PRODUCTION

[Main Table of Contents](#) [Search Form](#)

- Oil and Gas Reserves
- Oil Well Drilling Engineering and Formation Evaluation
- Reservoir Engineering
- Production Engineering
- Unconventional Hydrocarbons

SOLAR ENERGY AND PHOTOCHEMICAL ENERGY SYSTEMS

- Problems for Sustainability in the 21st Century
- Basic Solar Energy Data
- Solar Technologies
- Solar Energy Applications

SOLAR RADIATION ENERGY (FUNDAMENTALS)

- Energy Emitted by the Sun
- Sun-Earth Geometry - Time
- Sun Geometry Perceived by an Observer - Radiation at the Top of the Atmosphere
- Concepts of Scattering and Absorption - Terrestrial Radiation
- Radiative Transfer in the Atmosphere - Spectral Distribution of the Radiation
- Radiative Components at Ground Level

PHOTOVOLTAICS

- What We See Today

**Choose the
chapter**

Chapter Contents...

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SOLAR ENERGY AND PHOTOCHEMICAL ENERGY SYSTEMS

Julián Blanco Gálvez and Sixto Malato Rodríguez
Plataforma Solar de Almería. CIEMAT, Spain

Keywords: Solar energy, sustainability solar technology, solar collectors.

Contents

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- [2. Problems for Sustainability in the 21st Century](#)
- [3. Basic Solar Energy Data](#)
- [4. Solar Technologies](#)
- [5. Solar Energy Applications](#)
- [6. Conclusions](#)
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Color bar (Level 1)

Links to Chapter Sections

Link to Related Chapters

Summary

This Theme level contribution provides a comprehensive review about all solar energy related technologies (Section 4) and applications (Section 5), being some of them today under normal commercial and practical applications and other still under research and demonstration level. The article also provides an analysis and discussion about what are the reasons behind the current efforts of our society, considering both developed and developing countries, to accelerate the introduction of the huge solar energy potential into our normal daily lives (Section 2). Finally, some basic information about the solar energy potential, history and the amazing trip of a photon from its creation in the Sun until its arrival to the Earth, is provided (Section 3).

1. Introduction



The 20th century brought unprecedented development in the history of mankind with extraordinary advances in every discipline of science and technology. However, we are now realizing that the associated evolution of human society has not always been the best, and the overall price "paid" may be considered excessive from certain points of view. The key concept which appeared late in the last century, and which nobody doubts will be of capital

Chapter Contents...

Related Chapters



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Glossary



- Biodegradable** : Being able to be broken down by natural processes (by bacteria, fungi or other simple organisms), into more basic components. The claim biodegradable is often associated with environmentally friendly products.
- Biomass** : A renewable energy source, is biological material derived from living, or recently living organisms, such as wood, waste, (hydrogen) gas, and alcohol fuels.
- Black body** : It is an idealized object that absorbs all electromagnetic radiation falling on it.
- Central receiver systems** : The central receiver concept for solar energy concentration and collection is based on a field of individually sun-tracking mirrors (heliostats) that reflect the incident sunshine to a receiver (boiler) at the top of a centrally located tower.
- Concentrated solar power** : Concentrating Solar Power systems use lenses or mirrors and tracking systems to focus a large area of sunlight into a small beam. The concentrated heat is then used as a heat source for a conventional power plant
- Concentration ratio** : Concentration ratio is the area of collector divided by area of focused 'spot'
- Desalination** : Removal of salt (sodium chloride) and other minerals from the sea water or salty water to make it suitable for human consumption and/or industrial use.
- Disinfection** : To destroy microorganisms that can cause disease in humans.
- Global irradiation** : The total of direct solar radiation and diffuse sky radiation received by a unit horizontal surface
- Greenhouse gas** : They are gases in an atmosphere that absorb and emit radiation within the thermal infrared range (water vapor, carbon dioxide, methane, nitrous oxide and ozone).
- Heat pumps** : A heat pump is a machine or device that moves heat from one location (the 'source') to another location (the 'sink' or 'heat sink') using mechanical work. Most heat pump technology moves heat from a low temperature heat source to a higher temperature heat sink.
- Hydropower** : It is power that is derived from the force or energy of moving water, which may be harnessed for useful purposes.
- Off-grid power** : It describes the situation of a completely autonomous solar system that it operates independently, not relying on any central supply of power.
- Parabolic dishes** : It consists of a stand-alone parabolic reflector that concentrates light onto a receiver positioned at the reflector's focal point. The

Related Chapters...

Chapters Related to the Theme

b) Solar drying

Agriculture is a relevant or basic sector and exports. When drying foods, the key factor is to avoid quality losses. Solar drying is a sustainable energy production, secure food availability and...

air dryer: Production methods of...

ers (cabinet dryer) (glass or plastic) chamber.

- Indirect solar dryers (thermosiphon drying). The collector heats up air to be with or without flow enhancement.

6. Conclusions

Any human activity needs energy and the task to develop the suitable technologies.

Solar energy, in particular, has the high potential that mankind will face in the coming years. The number of applications of solar energy economically viable, being others still a...

In addition, it has been demonstrated that independence, as well as economic development applications, has been very intense due to accelerate the current solar energy path and effort and the status of most of these ap...

Related Chapters

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RELATED CHAPTERS

SOLAR ENERGY AND PHOTOCHEMICAL ENERGY SYSTEMS

- [Solar Radiation Energy \(Fundamentals\)](#)
- [Photovoltaics](#)
- [Low Temperature Solar Collectors](#)
- [Medium Temperature Solar Concentrators \(Parabolic Trough Collectors\)](#)
- [High temperature solar concentrators](#)
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See also:

- [Air Conditioning - Energy Consumption and Environmental Quality](#)
- [Coal, Oil Shale, Natural Bitumen, Heavy Oil and Peat](#)
- [Direct Solar Energy](#)
- [Earth's Available Energy and the Sustainable Development of Life Support Systems](#)
- [Efficient Use and Conservation of Energy](#)
- [Energy Carriers and Conversion Systems with Emphasis on Hydrogen](#)
- [Energy Policy](#)

Current Chapter being viewed

vegetables could be a way of increasing marketing and not seriously affect the flavor, texture and color of the product. Marketing dried agricultural products increases...

ments. Dehydration of vegetables and other food products...

ing takes place. Radiation is collected through a collector and the drying produce to be dried are placed inside the chamber.

operate more efficiently and allow more control over the drying process. Such dryers may...

its own specific renewable potential and it is our responsibility to not only create economic activity and wealth...

energy, water and climate change global problems that we have an absolute needs in the short to medium term. The number of these applications are already technically and economically viable...

solar irradiation level: from sustainability to energy production, from photovoltaic to solar thermal or power generation. There is a general consensus, at many countries, that we should focus on these applications that today are only technically feasible. This is a very important topic.

Related Chapters...

The image shows a screenshot of a web browser window titled "Related Chapters - Mozilla Firefox". The browser address bar shows the URL "greenplanet.eolss.net/EolssLogn/mss/C08/E6-106/E6-10". The page content is a list of related chapters, with a red box highlighting a section titled "See also:". A green arrow points from a green box labeled "Other Related Chapters" to the highlighted section.

See also:

- [Air Conditioning - Energy Consumption and Environmental Quality](#)
- [Coal, Oil, Gas, Nuclear, Wind, Heat, Oil and Gas](#)
- [Direct Solar Energy](#)
- [Earth's Available Energy and the Sustainable Development of Life Support Systems](#)
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access beyond this point !***

Subscription

The screenshot shows the UNESCO-EOLSS website interface. At the top, there is a search bar with the text "Search (for non-subscribers)", a "Category" dropdown, and a search icon. To the right are links for "Advanced search", "Member Login", "Help", and "FAQ". The main header features the UNESCO-EOLSS logo and the tagline "A Nonprofit Global Effort". Below the logo is a navigation menu with items: Home, About us, Free Trial, Subscription, Login, Overview, Services, events, Authors, and Contact Us. A green callout box with a white arrow points to the "Subscription" menu item, containing the text: "To become an authorized user by subscription, click here and follow the subscription information". The "Subscription" dropdown menu is open, listing categories: Individual Users (General, Disadvantaged) and Institutional Users (Schools, Community Colleges, Higher Educational Institutions, Government/Public Sector Organizations, Private Sector Organizations, Public Libraries, Educational Institutions in the UN list of LDC). On the left side, a vertical banner reads "HOW TO SUBSCRIBE". On the right side, another vertical banner reads "How to order e-Books". The main content area is titled "Subscription And User" and contains introductory text about the EOLSS body of knowledge. At the bottom left, a URL is provided: https://www.eolss.net/eolss_signup.aspx. A blue circular button with a white arrow pointing up is located at the bottom right of the page.

HOW TO SUBSCRIBE

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Comments

*Testimonials from some of
Distinguished People,
EOLSS Authors and Users*

Knowledge Base...

“EOLSS has the goal to provide a firm knowledge base for future activities to prolong the lifetime of the human race in a hospitable environment”

Richard R. Ernst,

Nobel Laureate in Chemistry

Unique knowledge...

“The EOLSS is not only appropriate, but it is imaginative and, to my knowledge, unique. Much of what we can write about science, about energy, about our far-ranging knowledge base, can indeed be found in major encyclopedias, but as I understand your vision, never as a central theme; the theme of humanity, embedded in nature and constrained to find ways of maintaining a relationship with nature based upon understanding and respect.”

Leon M. Lederman, Nobel Laureate in Physics

Control of Destiny...

“Pursuit of knowledge and truth supersedes present considerations of what nature, life or the world are or should be, for our own vision can only be a narrow one. Ethical evaluation and rules of justice have changed and will change over time and will have to adapt. Law is made for man, not man for law. If it does not fit any more, change it.... Some think that it is being arrogant to try to modify nature; arrogance is to claim that we are perfect as we are! With all the caution that must be exercised and despite the risks that will be encountered, carefully pondering each step, mankind must and will continue along its path, for we have no right to switch off the lights of the future.... We have to walk the path from the tree of knowledge to the control of destiny.”

Jean-Marie Lehn, Nobel Laureate in Chemistry

Life Support Systems...

“EOLSS is concerned with the Life Support Systems... Each of these systems is a very complex one. ...we have to think of all these “systems” as closely related “subsystems” of the Planet Earth System. ...Rational decisions will be more and more possible to envision if one will be able to couple the physical modeling to economic and financial models and to human factors...”

J.L. Lions, Japan Prize winner in Applied Mathematics

Authors and Users...

“Proud for having given my small contribution to such success”

Benedetto De Vivo, Italy.

“I do appreciate your very informative message and I do understand the value of EOLSS being published only in the electronic fashion. The data you present of current access to it is indeed impressive.”

Dra. Eugenia J. Olguin, Mexico.

“I am very proud to have my article published in this Encyclopedia and for my great satisfaction I managed to find it in the Internet, which I had been wishing to see for a long time. ”

Hilkka Pietilä, Finland

“Let me congratulate all those who have dedicated years of work and commitment to this endeavour. It is particularly comforting that access to the Encyclopedia is free of charge to poor universities in developing countries”

Judith A. Cherni, UK.

Authors and Users...

“...I looked up the web site and am very impressed with the project, and very glad to have been part of it. I also recommended it to our college library, and to the director of our environmental programs.”

Laurel MacDowell, Canada.

“I have a free trial period and I am very satisfied. This is a very valuable source of information”

Svein Solberg, Norway.

“It has been a pleasure working on this important project – it is really impressive”

Vagn Lundsgaard Hansen, Denmark.

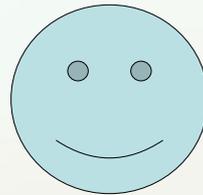
“I admire you for the work you are doing. It is worthwhile and positive! So many bad things are happening in the world; so I appreciate the work that people like you are doing!”

Wm. Gary Kline, USA

Thank You

*We hope you have a fruitful and productive experience
with EOLSS !*

*For additional information, please contact
(eolssunesco@gmail.com)*



Contact Addresses

Regarding Content

Encyclopedia of Life Support Systems (EOLSS)
UNESCO-EOLSS Joint Committee
Paris, France.

E-mail: boris-andreas@eolssonline.net

Regarding other matters

Encyclopedia of Life Support Systems (EOLSS)
Eolss Publishers Co. UK
E-mail: eolssunesco@eolssonline.net

and

International Center for Water and Energy Systems (ICWES)
P.O. Box :2623, Abu Dhabi, U.A.E.
E-mail: eolssunesco@gmail.com