

Renewable Energy

A Reader's Guide to Library Materials



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¹ **Alternative Energy Sources V**, <http://alternativeenergysourcesv.com/>

Renewable Energy, also called alternative energy, denotes usable energy derived from replenishable sources such as the Sun (*solar energy*), wind (*wind power*), rivers (*hydroelectric power*), hot springs (*geothermal energy*), tides (*tidal power*), and biomass (*biofuels*).

At the beginning of the 21st century, about 80 percent of the world's energy supply was derived from fossil fuels such as coal, petroleum, and natural gas. Fossil fuels are finite resources; most estimates suggest that the proven reserves of oil are large enough to meet global demand at least until the middle of the 21st century. Fossil fuel combustion has a number of negative environmental consequences. Fossil-fueled power plants emit air pollutants such as sulfur dioxide, particulate matter, nitrogen oxides, and toxic chemicals (heavy metals: mercury, chromium, and arsenic), and mobile sources, such as fossil-fueled vehicles, emit nitrogen oxides, carbon monoxide, and particulate matter. Exposure to these pollutants can cause heart disease, asthma, and other human health problems. In addition, emissions from fossil fuel combustion are responsible for acid rain, which has led to the acidification of many lakes and consequent damage to aquatic life, leaf damage in many forests, and the production of smog in or near many urban areas. Furthermore, the burning of fossil fuels releases carbon dioxide (CO₂), one of the main greenhouse gases that cause global warming.

In contrast, renewable energy sources accounted for nearly 20 percent of global energy consumption at the beginning of the 21st century, largely from traditional uses of biomass such as wood for heating and cooking. About 15 percent of the world's total electricity comes from large hydroelectric power plants, whereas other types of renewable energy (such as solar, wind, and geothermal) account for 3.4 percent of total electricity generation.²

² Noelle Eckley Selin, "Renewable Energy", **Encyclopædia Britannica Online**, academic ed. www.britannica.com/EBchecked/topic/17668/renewable-energy

How to Find Books on the Shelf

To locate books on *Renewable Energy Sources*, you may use the following call numbers:

333.794 (B2)	Renewable Energy Resources
333.88	Geothermal Energy
621.042 (B1)	Renewable Energy Engineering
621.44	Geothermal Engineering
621.45	Wind Engines
621.47	Solar Energy Engineering
662.88	Biomass as Fuel
665.81	Hydrogen as Fuel

Dictionaries

Arab League Educational Cultural and Scientific Organization (ALECSO). Bureau of Coordination of Arabization. **The Unified Dictionary of Renewable Energys [Energies] Terms: English-French-Arabic**. Series of Unified Dictionaries 11. Tunisia: ALECSO, 1996.

BA Call Number: 621.04203 U (B4 -- References)

Also available as e-book:

<http://dar.bibalex.org/webpages/mainpage.jsf?PID=DAF-Job:68187>

Nentwig, Karl-Heinz, ed. **Elsevier's Dictionary of Solar Technology: In Five Languages: English, German, French, Spanish and Italian**. Amsterdam: Elsevier Science, 1985.

BA Call Number: 621.470321 E (B4 -- References)

Atlases

Shaltout, M. A. Mosalam. **Egyptian Solar Radiation Atlas**. Cairo: Ministry of Electricity and Energy. New and Renewable Energy Authority; United States Agency for International Development, 1991.

BA Call Number: 551.52710962022 S5281 1991 (B4 -- References)

Also available as e-book:

<http://dar.bibalex.org/webpages/mainpage.jsf?PID=DAF-Job:69372>

For further assistance, you may ask a reference librarian in the Main Library or email us at: infobib@bibalex.org

Electronic Resources

The Bibliotheca Alexandrina offers a variety of subscribed electronic databases to meet your research needs. Subscribed databases are only available within the library where you can freely access them and email results.

Researchers who own a library membership card may also contact the nearest reference desk to fill in a *Search Request Form* which will be processed by specialized librarians. The results will be emailed directly to the researcher. In addition, researchers can ask for specific electronic articles and/or book chapters to be sent to them, via the following e-mail: e-article@bibalex.org.

Subscribed Databases

Full-Text Academic Articles:

The following database may include bibliographical references of articles on *Renewable Energy* and related disciplines:

- **Academic Search Complete.** EBSCO.
- **General OneFile.** GALE.
- **JSTOR.** ITHACA.
- **ScienceDirect.** Elsevier.
- **SpringerLink.** Springer.

Citations of Academic Articles:

The following database may include bibliographical references of articles on *Renewable Energy* and related disciplines:

- **Scopus.** Elsevier

Electronic Encyclopedias:

- **Encyclopedia Britannica Online.**

Theses & Dissertations:

- **ProQuest Dissertations & Theses (PQDT).** Proquest

e-Books:

- **ebrary.** ProQuest.
- **ScienceDirect.** Elsevier.
- **SpringerLink.** Springer.
- **Digital Assets Repository (DAR).** Bibliotheca Alexandrina.
- <http://dar.bibalex.org> [accessed 5 Feb 2012]

Subscribed Journals

Applied Solar Energy. Springer. e-periodical. SpringerLink (database). Springer.

Biomass & Bioenergy. Elsevier. e-periodical. ScienceDirect (database). Elsevier.

IEEE Transactions on Sustainable Energy. Institute of Electrical and Electronics Engineers (IEEE). e-periodical. IEEE Xplore (database). IEEE.

IET Renewable Power Generation. Institution of Engineering and Technology. e-periodical. IEEE Xplore (database). Institute of Electrical and Electronics Engineers.

International Journal of Sustainable Energy. Taylor & Francis. e-periodical. Academic Search Complete (database). EBSCO.

Materials for Renewable and Sustainable Energy. Springer. e-periodical. SpringerLink (database). Springer.

Renewable & Sustainable Energy Reviews. Elsevier. e-periodical. ScienceDirect (database). Elsevier.

Renewable Energy. Elsevier. e-periodical. ScienceDirect (database). Elsevier.

Renewable Energy Focus. Elsevier. e-periodical. ScienceDirect (database). Elsevier.

Solar Energy. Elsevier. e-periodical. ScienceDirect (database). Elsevier.

Solar Energy Materials and Solar Cells. Elsevier. e-periodical. ScienceDirect (database). Elsevier.

Open Access Journals

International Journal of Renewable Energy Research. Online e-journal.
www.ijrer.org/index.php/ijrer [accessed 7 Feb. 2013]

ISRN Renewable Energy. Hindawi. Online e-journal.
www.isrn.com/journals/re/ [accessed 7 Feb. 2013]

Journal of Fundamentals of Renewable Energy and Applications. Ashdin.
Online e-journal.
www.ashdin.com/journals/jfrea/jfrea.aspx [accessed 7 Feb. 2013]

Open Renewable Energy Journal. Bentham Open. Online e-journal.
www.benthamscience.com/open/torej/ [accessed 7 Feb. 2013]

Renewable Energy for Development (RED). Stockholm Environment Institute.
Online e-journal.

<http://sei-international.org/projects?prid=202> [accessed 25 Feb. 2013]

Smart Grid and Renewable Energy. Scientific Research. Online e-journal.

www.scirp.org/journal/sgre/ [accessed 7 Feb. 2013]

Web Resources

“Energy Basics”. **US Department of Energy. Energy Efficiency & Renewable Energy.**

www.eere.energy.gov/basics [accessed 30 Jan 2013]

International Organizations

International Geothermal Association (IGA).

www.geothermal-energy.org [accessed 30 Jan 2013]

International Hydropower Association (IHA).

www.hydropower.org [accessed 30 Jan 2013]

International Renewable Energy Agency (IRENA).

www.irena.org [accessed 30 Jan 2013]

Intergovernmental Renewable Energy Organization (IREO).

www.ireoigo.org [accessed 30 Jan 2013]

International Solar Energy Society (ISES).

www.ises.org [accessed 30 Jan 2013]

World Bioenergy Association (WBA).

www.worldbioenergy.org [accessed 30 Jan 2013]

World Wind Energy Association (WWEA).

www.wwindea.org [accessed 30 Jan 2013]

Organizations in Egypt

Egypt Green Energy Association (EGE).

59 East Autostrad Buildings, apt. 28, Al-Maadi
Cairo, Egypt

Tel: (+2) 0101 336 9079

E-mail: info@egyptgreenenergy.org

Website: www.egyptgreenenergy.org [accessed 30 Jan 2013]

Egyptian Association for Energy & Environment (EAEE).

Engineering Tower 3B, Corniche El Maadi, 28th floor, apt. 3, Al-Maadi
Cairo, Egypt

Tel: (+202) 25266038

E-mail: mahmoudshaban@eaee-eg.com

Website: www.eaee-eg.com [accessed 30 Jan 2013]

Egyptian Wind Energy Association (EGWEA).

2 Ahmed Ragheb St., Garden City
Cairo, Egypt

www.ewindea.org [accessed 30 Jan 2013]

New & Renewable Energy Authority (NREA).

Abbas Al Akkad Street, Nasr City
4544 Cairo, Egypt

Tel : (+202) 22725891

E-mail: reic@nreaeg.com

Website: www.nrea.gov.eg [accessed 30 Jan 2013]

Research Centers in Egypt

Egyptian Solar Research Center (SOLAREC Egypt).

Main office: 7 Nozha St., apt. 2, Nasr City
Cairo, Egypt

E-mail: info@solarec-egypt.com

www.solarec-egypt.com [accessed 30 Jan 2013]

German University in Cairo (GUC). Renewable Energy Research Centre.

New Cairo City

Main Entrance Eltagamoa El Khames

<http://met.guc.edu.eg/rerc/index.aspx> [accessed 30 Jan 2013]

National Research Center. Engineering Research Division. Biodiesel Expert Group in Egypt.

El Buhouth St., Dokki

12311 Cairo, Egypt

www.nrc.sci.eg/nrc/Biodiesel/BiodieselHome.html [accessed 30 Jan 2013]

Renewable Energy Industry in Egypt

Egyptian Solar Energy Company.

Main Office: 11 El-Gamaa Street, Giza Square
Giza, Egypt

Tel: (+202) 35737813 / (+202) 35714538 / (+202) 34043306

E-mail: info@egyptsolar.net [accessed 30 Jan 2013]

Website: <http://egyptsolar.net>

Solar Egypt.

Head Office: 19 (A) Salah Salem St., Obour Buildings
Cairo, Egypt

Tel : (+202) 2260 85 29 / (+202) 2260 85 34

E-mail : solarenergy@link.net

Website: www.solaregypt.com [accessed 30 Jan 2013]